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A

COMPILATION

OF THE

Reports of the Mining Industry of Illinois

FROM

The Earliest Records to 1954

AUG. 26TH 1818

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BEN H. SCHULL, Director,
DEPARTMENT OF MINES AND MINERALS,
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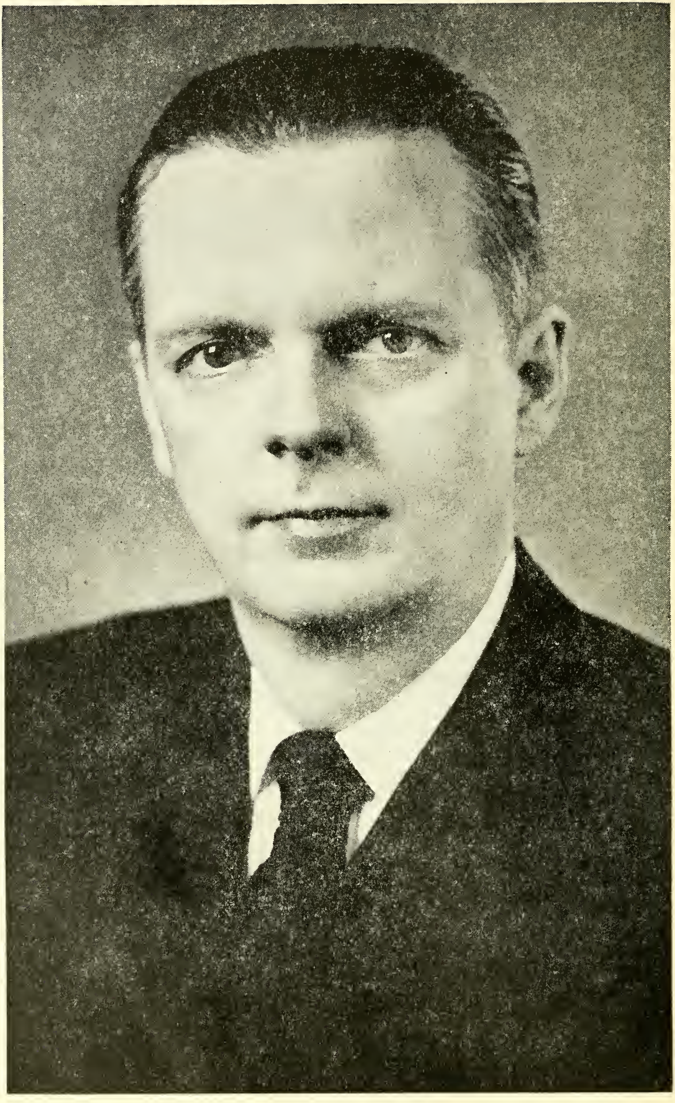

WILLIAM G. STRATTON
Governor

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BEN H. SCHULL, Director
Department of Mines and Minerals

FOREWORD

The book entitled "A Compilation of the Coal Reports of Illinois, 1882-1930", produced under the direction of Director John G. Millhouse, was an important summary of the Illinois coal industry statistics, not only from 1882 but from the earliest records. The year 1882 is given because that is when authentic records began.

It is also a book of value because of its history from the first discovery of coal, the various developments and practices in the coal mines, the origin and evolution of mining laws and steps in their enactment, and from the start of records upon other of our State's natural resources.

Our progress since 1930, in my opinion, warrants further compilations, an added record to the present time. My successors undoubtedly will follow the plan, giving at the end of each 25-year period a summary for that period.

Our summary not only includes the records of production improvements, including newer and bigger mines, improved strip and deep coal mining mechanization and the advance in the oil and our other natural resources production. It also includes the advances in safer operations. These include the great advances in blasting—phenomenal in the last 25 years; a better understanding of the value of rock dust and its more sincere application; the gradual dismissal of open lights; improvement in fans and in ventilation; a better recognition of hazards both inherent and of human error, and last, but certainly not least, a better statewide acceptance per employee and per employer of the value of greater personal safety consciousness and safety knowledge. I am very well pleased with the cooperation given us in our safety classes.

In addition to the appreciation to Messrs. Millhouse and Asa for the good work done in the origin of this report, I wish to thank John E. Jones, ex-state mine inspector, mining investigating commissioner and safety engineer of Old Ben Coal Corporation, for his assistance with the original report and this, my addition to it.

Ben H. Schull
Director of the Department of
Mines and Minerals

INTRODUCTION

A quarter of a century has passed since the work "A Compilation of the Coal Reports of Illinois, 1882-1930", was completed and published. Its introduction was written by William P. Asa, my able predecessor during the greater part of that period.

Following the introduction is the brief "History of Coal Mining in Illinois", containing tabulations that begin in 1833, compiled with and under the direction of John G. Millhouse, then the Director of the Department of Mines and Minerals.

Each of the last two quarter centuries experienced a World War. There were many important factors, one of which was our abundant production of coal. Much history, including that of coal, was made in those two quarter centuries.

Under the direction of Ben H. Schull, the present Director of the Department of Mines and Minerals, I now bring the history up to date. This twenty-five year addition, as begun by our Director, will, we hope, be the start of many such periodic contributions by successive Directors and their departments.

Recognizing the inherent hazards of the industry, many of the coal mining personnel have endeavored and succeeded in getting the enactment of laws by our Legislatures to minimize those hazards. During this last quarter century, major advancements have been made. These involve chiefly the accelerated progress of practices and inventions begun earlier, and a few that are relatively new.

Today, I am happy to report, there is a better united effort towards an understanding of the hazards in and about our mines and the human equation in relation to safety. This is well illustrated in the increased interest of workers and managements in safety classes, first aid instruction and mine rescue training that is given by the Department of Mines and Minerals through well informed instructors employed exclusively for that work. They hold classes most convenient as to location and for day or night shift employees. We are very much interested in the interest taken and in the reduction of accidents.

Our annual Coal Reports provide the material from which State compilations are made. It is from compilations of the United States Bureau of Mines that we take data for comparison with other coal producing states. Data is added from the State Geological Survey and Coal Strippers Association.

The original report of 1882-1930 largely is copied. There are occasional minor corrections and the addition of data that we think should be included for some of the years prior to 1930.

Joseph C. Tabor
Chief Clerk and Statistician

January 1, 1955

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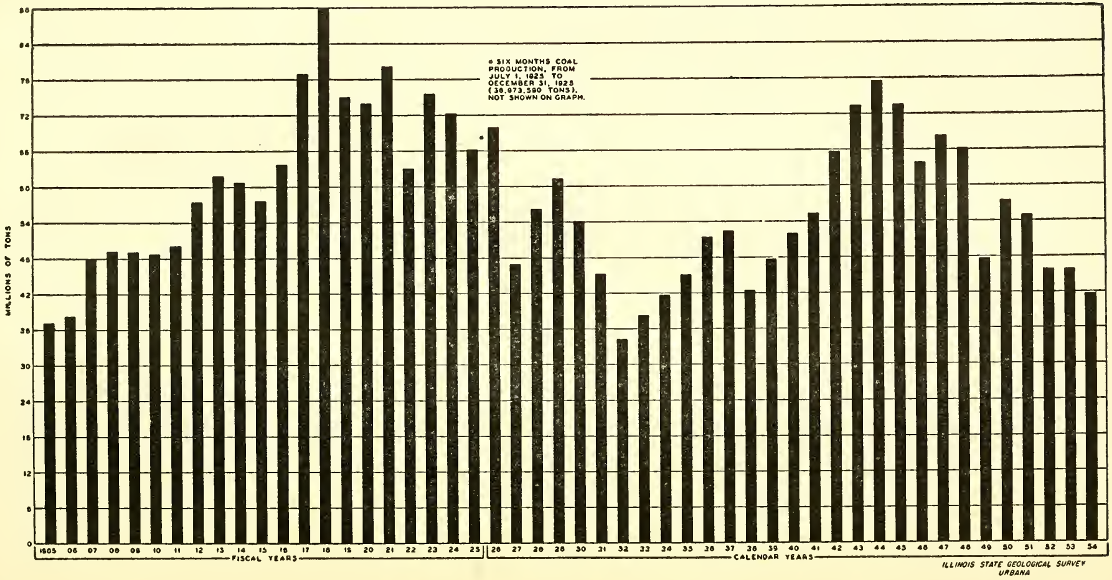
ANNUAL COAL PRODUCTION IN ILLINOIS

Data furnished by Department of Mines and Minerals, Springfield, Illinois



Chapter I

The discovery of coal, the coal resources of the State, the beginning of mining in Illinois, coal production and main track mileage of railroads 1833-1951, production and rank by counties in periods 1882-1954, total production of the State, coal taken from the different seams, coal stripping, monthly production of shipping mines, number of shipping mines operated and time worked by months, production of coal in the United States, States in order of output, disposition of output of Illinois mines, disposition by counties, list of railroads handling coal, and loss of railroad tonnage.

HISTORY OF COAL MINING IN ILLINOIS

The Discovery of Coal

The first reference to coal being found in North America appeared in an article published in Paris in 1672 by Nicholas Denys, appointed governor of Eastern Arcadia in 1637. He obtained a concession of the whole island of Cape Breton from the King of France. He referred to "mines of coal within the limit of my concession and upon the border of the sea". The concession was cancelled in 1690.

The first discovery of coal, in 1668 by Father Louis Hennepin, in what is now the United States, was made in what eventually, 1818, became our State of Illinois. Authorities differ as to when and by whom this discovery was made.

"The World's Cyclopedia and Dictionary of Universal Knowledge" gives the honor of this discovery to Father Hennepin in 1669, on the Illinois River near the present site of Ottawa, La Salle County.

"Mineral Resources of the United States, Part 2, 1913", at page 832 says: "The first mention of coal in the territory which afterward became the United States is contained in the Journal of Father Louis Hennepin, published in 1698. The Journal contains a map on which is marked 'cole mine' on the banks of the Illinois River near the site of the present city of Ottawa, Hennepin having passed through this region 30 years before, in 1668."

Prof. A. Beman, in "Bulletin No. 56, State Geological Survey," states that "Joliet and Father Marquette in their voyage of exploration in 1673 by way of the Illinois Valley and Chicago River made the original discovery, some place between the present cities of Utica and Ottawa."

Almost a century passed before it was known that coal existed in Pennsylvania and other places in this country.

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During the first quarter of the nineteenth century it became known that a very wide extent of workable coal seams existed in Illinois, and references are found to its abundance in several counties of the State.

Tanner, in "A View of the Valley of the Mississippi", published in 1834, quoted by Mr. S. O. Andros in "Illinois Coal Mining Investigation, Bulletin 13", says: "Bituminous coal is found abundantly in all parts of this State, in the bluffs and the banks of the water courses. On the Illinois, and opposite to St. Louis in St. Clair County, it is very abundant."

Mr. Andros, in the same work referred to above, quotes Peck's "A Guide for Emigrants", published in 1831, as follows: "Stone coal abounds in Illinois. It may be seen frequently in the ravines and gullies and in the points of the bluff. * * * There is scarcely a county in the State but what can furnish coal in reasonable quantities. Large beds are said to exist near the junction of the Fox River with the Illinois."

Coal was discovered in St. Clair County very early in this period, in a very singular way. Reynolds, in his "Sketches", says that "A citizen of the American Bottoms saw smoke arising from the same place for weeks together, which attracted his attention. Upon investigation, he found the coal in the bluff on fire and supposed it had caught from the roots of a tree which had been set on fire by burning prairie grass."

These explorations and discoveries prior to 1830 were confined to the outcroppings of seams found along the bluffs of rivers and streams. For, as Prof. Leighton so admirably says, in an article printed in the April, 1929, number of the Illinois Journal of Commerce: "It was only after drilling that coal was discovered away from stream outcrops, but this did not happen until the population had extended inland and the need for water wells arose."

In digging or drilling wells in search of water, very often coal seams would be penetrated at a depth ranging from a few feet to a hundred or more. And when the demand had increased beyond the capacity of "outcropped mines" to supply, the transition to "deep" mining was quickly made. This, however, was delayed until the coming of railroads and the development of manufactories. Quoting Prof. Leighton in his article above mentioned: "The coming of the railroad period brought a notable increase in the production of coal. * * * Subsequently the development of mines went hand in hand with the construction of railroads."

The rapid growth of the railroads and the development of manufactories, were the greatest factors in the rapid development of the coal industry. Instead of local demands, which were supplied by wagon haulage, markets located in cities at great distance from the mines could be reached by railway transportation. Shaft mining was begun shortly after the completion of the Illinois Central railroad, 1855, at DuQuoin, Perry County. At this time there was much activity in railroad construction and within ten years the coal fields of Alton, Kingston, Rock Island, Danville, Braidwood and Braceville were developed. Soon great industries sprang up along the lines of these railroads, and coal mining soon became one of the leading industries of the State.

COAL BEDS OF ILLINOIS

The coal fields of Illinois are in the Eastern Interior Basin, which lies principally in Illinois and includes adjacent portions of Indiana and Kentucky. Approximately two-thirds of Illinois is underlain by coal-bearing strata which belong to the Pennsylvania system (Coal measures). The thickness of this sequence of rocks ranges from a few feet at their limiting margin to a maximum of about 2,600 feet in the deepest part of the Basin in Edwards County, Illinois. These strata dip gently except for local folding and faulting, from the margin toward the central part of the Basin. Coal beds which are at or near the surface along the margins of the coal basin lie at considerable depths in the middle of the basin. For example, the relatively well-known No. 6 coal, which is strip-mined along its outcrop in southern Illinois, lies at depths exceeding 1,200 feet in parts of Jasper County. The area and general structure of coal-bearing strata in Illinois are shown on the Illinois Geological Survey Geologic Map of Illinois (Weller and others, 1945).

Forty to fifty coal beds or coal horizons are distributed throughout the Pennsylvania system in Illinois. Many of the beds have a thickness of at least 28 inches; some locally are as much as 14 feet thick. Coal beds No. 6, No. 5, and No. 2 are the only ones known to have a wide distribution with at least a thickness of 28 inches. All additional coals listed in Table 1 range from 28 inches to several feet thick, but most have such development relatively locally.

No. 6 coal bed is most prominent in central and southern Illinois, with less extensive occurrence in northern Illinois. No. 5 bed is most prominently developed in western Illinois (west of the Illinois River), central Illinois (Springfield district), and southeastern Illinois. No. 2 coal occurs in minable thickness principally in northern Illinois. No. 7 coal has been extensively mined in east-central Illinois (Danville district) and is of minable thickness throughout much of the LaSalle district. This coal has been reported in minable thickness at scattered points principally in the central part of the State. Some of the lower coals in southern Illinois may be much more extensive in minable thickness than is known from available data. Limited data suggests that the Davis and Dekoven coal beds of southeastern Illinois may occur in minable thickness over a large area in this part of the State.

Coal Bed Designations—A. H. Worthen, in Volume I (1868) of the first Geological Survey of Illinois, numbered the principal minable seams from No. 1 to No. 7, No. 1 coal being in the lowest position. Numbers 8 to 16 and higher were generally applied by Worthen to thin seams above No. 7 coal bed. In the northern Illinois district in the vicinity of LaSalle, minable seams were called First Vein, Second Vein, and Third Vein from the surface down. These seams are No. 7, No. 6, and No. 2 respectively in present terminology.

Since Worthen's time it has been found that the numbers were not always applied to the same coal seam. Additional coals and coal horizons normally occur between the originally numbered coals. The present Geological Survey (since 1905) has sought a consistent terminology for coal beds in the State. The numbers are consistently used for the most commonly mined No. 1, No. 2, No. 5, No. 6, and No. 7 coal beds, although little significance is attached to the chronology of the numbers, as several coals lie below No. 1 coal and others commonly lie between the numbered seams.

Geographic names have been applied to most of the coal beds and horizons, the name generally being selected from an area where the bed is well exposed or has been mined, e.g., Rock Island No. 1, Colchester or LaSalle No. 2, Springfield or Harrisburg No. 5, Brereton, Herrin or Grape Creek No. 6, and Sparland or Danville No. 7 coal beds. At least 16 additional coals, which are listed in Table 1, occur in minable thickness and have been worked locally. Two or more of the coals listed separately may prove to be one seam when additional information has been acquired about areas which are inadequately known today. Less than 1 percent of Illinois production has been from these coal beds.

Coal Quality—Most Illinois coal is classed as high-volatile C bituminous coal (moist mineral-matter-free basis, B.T.U. from 11,000 to 13,000). Much of the coal in the southernmost mining fields is classed as high-volatile B bituminous coal (moist mineral-matter-free basis, B.T.U. from 13,000 to 14,000). High-volatile A coal (moist mineral-matter-free, B.T.U. over 14,000, fixed carbon less than 69%, volatile matter over 31%) has been found in Illinois in the Eagle Valley area of Gallatin County south of the Shawneetown fault.

Analyses of face channel samples from mines in most of the minable coal seams in various parts of the State are reported in Illinois Geological Survey Bulletin 62 (Cady, 1935) and Bulletin 62 Supplement (Cady, 1948). Although no analyses of commercially prepared coals appear in these publications, the seam analyses presented do afford a basis for comparison of the different seams from coal-producing counties in the State.

Illinois has the largest known reserves of bituminous coal in the United States, having an estimated total of 137 billion tons. North

Dakota and Montana are the only states which have solid fuel reserves larger than Illinois, but their reserves are nearly all subbituminous coal and lignite. The Illinois total compiled in an intensive investigation of Illinois coal reserves recently completed by the Illinois Geological Survey, (Cady, G. H., and others, 1953, Minable Coal Reserves of Illinois, Illinois Geological Survey Bulletin 78, 138 pp.). Reserves were estimated for each coal bed for each county by thickness at approximately one-foot intervals and in four categories of probability: I-A, proved; I-B, probable; II-A, strongly indicated; II-B, weakly indicated. A minimum thickness of 28 inches was used to define *minable* coal. No limit was placed on depth since no coal in Illinois lies at sufficient depth to render it technically unminable.

For purposes of estimating reserves, an area no more than one-half mile radius around a diamond drill hole, an outcrop, or a mined-out area is considered Proved (I-A). Probable (I-B) reserves include coal under areas which extend no more than two miles from a diamond drill hole, outcrop, mined-out area or churn drill hole drilled for coal. Reserves in the Strongly-indicated (II-A) class were estimated for areas extending no more than four miles from datum points used in class I plus carefully logged churn drill oil tests and control rotary drill holes which were logged and sampled in the field by members of the Coal Division of the Geological Survey. Weakly-indicated reserves are estimated under additional areas where geologic information suggests that the coal is at least 28 inches thick. All reserves in the II-B class are assigned a thickness of 28 inches in the estimates.

In comparing Illinois coal reserve figures with those of other states, it should be noted that the Illinois estimates include only coals at least 28 inches thick, whereas the other states' estimates commonly include coal as thin as 14 inches, or even 12 inches. The minimum thickness of 28 inches and the exclusion from the estimates of coal in oil-pool areas and under large towns make these latest estimates for Illinois more conservative than most reserve estimates that have been published.

The following table summarizes the estimated reserves for Illinois, and the approximate mined-out area of each seam as of January 1, 1950. Reference should be made to Illinois Geological Survey Bulletin 78 for more detailed listings.—J. A. Simon, Illinois Geological Survey.

TABLE 1*—SUMMARY OF ILLINOIS COAL RESERVES BY COAL BED: FOUR CATEGORIES OF RESERVES AND MINED-OUT AREA
(in thousands of tons)

Coal Bed	I-A Proved	I-B Probable	II-A Strongly indicated	II-B Weakly indicated	Total	Mined-out area (in sq. mi.)
Trowbridge	8,396	7,873			16,269	
Friendsville		24,449	70,018	5,388	99,855	.14
Danville (Sparland) No. 7	1,003,028	3,413,502	2,924,154	499,698	7,810,381	18.23
Jamestown	42,147	191,363	367,425		600,934	
Herrin No. 6 (includes Grape Creek)	12,299,737	21,100,547	25,143,881	4,093,391	62,637,556	672.93
Harrisburg (Springfield) No. 5	4,168,131	9,593,325	19,776,703	4,971,819	38,509,978	261.55
Summum No. 4	51,592	62,359	67,585		181,537	.77
Indiana IV	11,916	58,072	61,024		131,042	
LaSalle (Colchester) No. 2	1,359,365	3,622,676	6,216,399	6,287,748	17,486,188	103.52
Dekoven	92,150	845,075	1,548,149		2,485,374	
Indiana III	167,452	687,898	965,550		1,820,900	.03
Davis-Wiley	123,448	1,061,644	1,882,935	364,056	3,432,084	
Campbell Hill	8,833				8,833	.10
Stonefort	4,540				4,540	
Bald Hill	27,245	39,033	5,028	1,229	72,535	
Murphysboro	34,064	86,016	147,370	124,343	391,794	8.55
Rock Island No. 1	111,286	65,230	85,904	6,539	268,960	11.73
Assumption-Litchfield	27,794	265,473	1,010,768		1,301,035	.44
Willis	6,892				6,892	
Makanda	1,962				1,962	
Coals of unknown correlation lower than No. 6	21,186		6,375		27,561	
Total	19,571,192	41,124,535	60,279,271	16,354,211	137,329,208	1,077.99

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* From Illinois Geological Survey Bulletin 78, p. 137.

BEGINNING OF COAL MINING IN ILLINOIS

The beginning of coal mining in Illinois dates back to the first quarter of the nineteenth century. The first recorded instance we have is that in 1810 coal was mined from the outcroppings along the bluffs bordering on the Big Muddy River in Jackson County a few miles below the present city of Murphysboro. A flat-boat was loaded with coal in that year and shipped to New Orleans.

The Journal of the Franklin Institute for 1836, quoted in Mineral Resources of the United States, 1913, page 832, says that the first actual mining operations conducted by white men were at the Mount Carbon, near Brownsville, in Jackson County, on the banks of the Big Muddy River, a short distance from its junction with the Mississippi. These mines were opened in 1810 and worked to a limited extent for many years.

In 1832, the next recorded date, several flat-boats loaded with coal were sent to the New Orleans market. No doubt coal was mined between these dates, but in a very limited way, as the demand was confined almost exclusively to the blacksmithing trade.

Coal mining began in St. Clair County about 1832 and was carried on in this County for domestic purposes, and also in Peoria, Rock Island, LaSalle and other points.

In 1833, six thousand tons were hauled in wagons from the Belleville district to St. Louis. Evidently coal was mined in other parts of the State but we have no record of the amount.

This year, 1833, marks the beginning of Government records of the production of coal and from these records the following tabulation has been made, showing the tonnage mined each year from 1833-1839:

Year	Tons
1833	6,000
1834	7,500
1835	8,000
1836	10,000
1837	12,500
1838	14,000
1839	15,038

The United States Census Report for 1840 gives the total output at 16,967 tons and 152 employees, distributed over nineteen counties. These counties, arranged in order of output, are as follows:

County	Tons Mined	Employees
St. Clair	5,196	24
Madison	3,890	25
Sangamon	3,280	10
Scott	2,028	18
Jackson	600	8
Peoria	480	21
Randolph	240	11
Schuyler	209	5
Marshall	160	3
Vermilion	114	3
Warren	112	2
Shelby	108	2
Adams	108	5
Henry	90	2
Edwards	80	1
Morgan	80	3
Lawrence	66	6
Gallatin	60	2
Perry	60	1

The first railroad in the Mississippi Valley was built in 1837 by a company organized by Governor Reynolds, and connected the mines along the bluffs with a point opposite St. Louis, a distance of six miles.

At the close of 1849, fifty-two miles of railroad had been completed. Beginning with 1850, the construction of railroads began in earnest and by the close of that decade 2,781 miles were completed.

The building of railroads and the development of the mining industry is shown by years from 1833 to 1951, in the following table.

TABLE 1—COAL PRODUCTION AND MAIN TRACK MILEAGE OF RAILROADS

Year	Coal Tonnage	Railroad Mileage	
		Steam	Electric
1833	6,000	----------	----------
1834	7,500	----------	----------
1835	8,000	----------	----------
1836	10,000	----------	----------
1837	12,500	6	----------
1838	14,000	6	----------
1839	15,038	6	----------
1840	16,967	6	----------
1841	35,000	22	----------
1842	58,000	22	----------
1843	75,000	22	----------
1844	120,000	22	----------
1845	150,000	22	----------
1846	165,000	22	----------
1847	180,000	22	----------
1848	200,000	22	----------
1849	260,000	52	----------
1850	300,000	111	----------
1851	320,000	271	----------
1852	340,000	412	----------
1853	375,000	759	----------
1854	385,000	788	----------
1855	400,000	887	----------
1856	410,000	2,235	----------
1857	450,000	2,502	----------
1858	490,000	2,730	----------
1859	530,000	2,781	----------
1860	728,400	2,790	----------
1861	670,000	2,917	----------
1862	780,000	2,998	----------

TABLE 1—COAL PRODUCTION AND MAIN TRACK MILEAGE OF RAILROADS —Concluded

Year	Coal Tonnage	Railroad Mileage		Year	Coal Tonnage	Railroad Mileage	
		Steam	Electric			Steam	Electric
1863	890,000	3,156	----------	1908	49,272,436	12,082	----------
1864	1,000,000	3,156	----------	1909	49,163,710	12,082	----------
1865	1,260,000	3,157	----------	1910	48,717,853	12,126	----------
1866	1,580,000	3,191	----------	1911	50,165,099	12,133	----------
1867	1,800,000	3,224	----------	1912	57,514,240	12,143	----------
1868	2,000,000	3,440	----------	1913	61,846,204	12,168	----------
1869	1,854,000	4,031	----------	1914	60,715,795	12,012	3,264
1870	2,624,163	4,823	----------	1915	57,601,694	12,157	3,760
1871	3,000,000	5,904	----------	1916	63,673,530	12,141	3,760
1872	3,360,000	6,361	----------	1917	78,983,517	12,133	3,724
1873	3,920,000	6,589	----------	1918	89,979,469	12,125	3,737
1874	4,203,000	6,759	----------	1919	75,099,784	†	†
1875	4,453,178	7,109	----------	1920	73,930,563	†	†
1876	5,000,000	7,285	----------	1921	80,121,948	12,189	3,614
1877	5,395,000	7,334	----------	1922	63,276,827	12,046	3,528
1878	5,700,000	7,448	----------	1923	75,514,095	12,035	3,555
1879	5,000,000	7,578	----------	1924	72,308,665	†	†
1880	6,115,377	7,851	----------	1925‡	103,186,166	12,037	3,555
1881	6,720,000	8,260	----------	1926	69,813,255	†	†
1882	9,115,061	8,541	----------	1927	46,949,700	12,304	2,200
1883	10,508,785	8,766	----------	1928	56,211,082	12,314	2,163
1884	10,101,004	9,142	----------	1929	61,127,759	12,760	2,656
1885	9,791,874	9,204	----------	1930	54,035,116	12,760	2,583
1886	9,246,435	9,444	----------	1931	45,152,623	12,881	1,421
1887	10,278,890	†	----------	1932	34,120,786	12,802	1,334
1888	11,855,188	9,918	----------	1933	38,320,125	12,182	1,236
1889	11,597,963	9,937	----------	1934	41,724,078	12,110	1,145
1890	12,638,364	10,163	----------	1935	45,013,278	†	†
1891	15,660,698	10,180	----------	1936	51,475,899	12,967	1,253
1892	17,862,576	10,276	----------	1937	54,432,255	†	†
1893	19,949,534	10,315	----------	1938	42,387,368	†	†
1894	17,113,576	10,355	----------	1939	47,627,454	†	†
1895	17,735,864	10,472	----------	1940	51,871,704	†	†
1896	19,786,626	10,544	----------	1941	55,365,835	†	†
1897	20,072,758	10,625	----------	1942	65,746,204	†	†
1898	18,599,299	10,646	----------	1943	73,344,761	†	†
1899	23,434,445	10,800	----------	1944	77,400,031	†	†
1900	25,153,929	10,817	----------	1945	73,446,930	†	†
1901	26,685,319	10,925	----------	1946	63,767,082	†	†
1902	30,021,300	11,141	----------	1947	68,325,241	11,760	1,210
1903	34,955,400	11,229	----------	1948	66,166,805	†	†
1904	37,077,897	11,529	----------	1949	47,630,380	11,674	*
1905	37,183,374	11,637	----------	1950	57,282,303	11,674	*
1906	38,317,581	11,894	----------	1951	54,869,679	†	†
1907	47,798,621	11,967	----------	1952	45,752,588	†	†
				1953	45,966,114	----------	--------

* Electric railroad mileage not available in these years.
† No figures available for railroad mileage in these years.
‡ From July 1, 1924, to December 31, 1925.

* Electric railroad mileage not available in these years.
† No figures available for railroad mileage in these years.
‡ From July 1, 1924, to December 31, 1925.

Figures for railroad mileage from 1833 through 1881 are taken from "Illinois Coal Mining Investigations, Bulletin 13" from tables compiled by S. O. Andros; from 1882 through 1913 are copied from the "Report of the R. R. & W. Commission in Illinois", and from 1914 through 1950 from "The Stateman's Year Book".

PRODUCTION SUBSEQUENT TO 1882

Beginning with 1882, yearly reports by the coal operators have been made to the State government. At first these reports were made to the Bureau of Labor Statistics but by Act of the Legislature, effective July 1, 1911, they were required to be made to the State Mining Board. The Civil Administrative Code, passed in 1917, placed all subjects relating to mining under the jurisdiction of the Department of Mines and Minerals. From these reports made by the operators, the Annual Coal Report is compiled and tabulated.

We find in the report of 1882 that forty-three counties produced coal. There were 685 mines in the State, of which 207 were "steam shafts", 140 "horsepower shafts", 9 were "steam slopes or shafts" and 329 "other slopes or drifts". The employees numbered 20,299, of whom 870 were under sixteen years old. The amount of capital invested in the industry was $8,230,180, and the annual capacity of the mines was placed at 18,079,637 tons, or about double the output of that year.

From this time forward the industry advanced rapidly, not only in the amount of coal produced but in improvements in the mines, in working conditions for the employees and in methods of mining. These improvements are due in most part, if not entirely, to wise legislation and the careful supervision by conscientious men whose duty it is to supervise and enforce the laws.

The varied growth in production from 1882 to, and including 1953, will be seen by reference to the following tables taken from the annual reports and combined by periods. The tables are arranged to show the counties in alphabetical order for the periods 1882-1930 and 1931-1953 inclusive.

Table 2—Coal production from 1882 to 1930, inclusive, by periods —arranged by counties

County	First period— 1882-1892 Eleven years	Second period— 1893-1902 Ten years	Third period— 1903-1912 Ten years	Fourth period— 1913-1922 Ten years	Fifth period— 1923-1930 Eight years	Total 1882-1930
Bond	462,253	1,096,901	1,377,573	1,585,917	2,014,077	6,536,721
Bureau	4,084,228	11,940,880	16,413,758	11,706,542	2,122,848	46,268,256
Cass	50,726	87,848	11,352	25,183	25,026	200,135
Christian	2,574,473	7,205,943	11,509,987	24,980,760	31,398,218	77,669,381
Clinton	1,067,639	4,135,236	9,751,199	11,981,109	5,785,685	32,720,868
Edgar	73,161	800	21,655	----------	81,843	177,459
Franklin	1,100	120	13,966,993	96,904,643	113,630,250	224,503,106
Fulton	4,003,640	6,150,384	17,975,802	22,396,678	15,931,941	66,458,445
Gallatin	268,602	346,745	728,166	1,307,181	364,672	3,015,366
Greene	145,373	116,044	86,118	66,370	52,171	466,076
Grundy	8,408,635	11,957,019	11,323,512	3,245,415	2,804,684	37,739,265
Hancock	59,524	61,658	86,110	40,196	33,966	281,454
Henry	1,617,551	1,212,915	1,417,602	438,920	1,266,818	5,953,806
Jackson	4,849,226	8,313,530	7,427,784	8,985,666	12,154,341	41,730,547
Jefferson	3,304	270,352	176,827	83,434	693,363	1,227,280
Jersey	38,158	22,516	14,754	22,013	4,600	102,041
Johnson	112,724	24,966	22,923	51,879	24,355	236,847
Kankakee	738,106	974,181	238,691	----------	800	1,951,778
Knox	515,360	555,740	550,179	311,097	1,052,123	2,984,499
LaSalle	12,315,119	15,528,757	16,312,971	10,678,032	4,519,121	59,354,000
Livingston	3,689,193	2,583,034	2,251,565	1,067,813	282,594	9,874,199
Logan	1,628,888	1,811,104	4,087,467	4,079,730	1,736,451	13,343,640
Macon	1,674,378	1,914,486	2,270,161	2,352,587	1,304,722	9,516,334
Macoupin	13,150,592	18,537,594	36,262,837	59,949,145	46,085,076	173,985,244
McDonough	1,166,556	592,358	386,847	200,695	137,288	2,483,744
McLean	1,505,175	1,776,331	1,461,917	649,534	141,632	5,534,589
Madison	6,877,408	11,709,210	32,986,318	40,165,189	25,518,882	117,257,007
Marion	1,912,071	6,529,188	10,538,558	9,514,335	4,613,332	33,107,484
Marshall	567,684	3,128,438	4,337,283	3,592,891	774,807	12,401,103
Menard	1,877,418	3,503,430	3,917,811	1,544,401	688,326	11,531,386
Mercer	1,928,057	4,623,135	4,414,042	2,975,194	701,425	14,641,853
Montgomery	458,400	2,760,693	12,254,811	30,119,333	16,125,629	61,718,866
Morgan	90,490	19,109	31,831	12,294	6,512	160,236
Moultrie	----------	----------	76,055	1,707,337	248,844	2,032,236
Peoria	5,283,051	6,278,238	9,610,148	12,589,947	10,397,797	44,159,181
Perry	3,870,552	7,153,820	14,123,638	23,540,434	20,023,480	68,711,924
Putnam	----------	----------	3,183,416	5,661,897	741,971	9,587,284
Randolph	1,254,827	2,822,444	7,079,868	12,355,186	7,837,808	31,350,133
Rock Island	1,318,200	473,027	720,894	547,649	256,705	3,316,475
St. Clair	13,156,808	19,427,686	40,352,379	51,249,956	28,856,831	153,043,660
Saline	1,113,472	931,663	18,959,571	44,423,046	35,934,055	101,361,807
Sangamon	9,158,957	20,256,558	48,104,902	63,310,212	42,705,225	183,535,854
Schuyler	172,396	129,230	135,575	172,443	200,964	810,608
Scott	155,963	222,573	137.850	35,660	27,646	579,692
Shelby	108,849	705,690	1,336,348	1,248,210	470,410	3,869,507
Stark	208,692	227,550	335,868	162,324	102,942	1,037,376
Tazewell	747,663	1,180,710	2,065,352	5,038,367	4,663,687	13,695,779
Vermilion	5,955,153	17,315,861	27,218,123	31,366,644	28,071,068	109,926,849
Warren	172,274	136,451	137,107	58,110	62,313	566,255
Washington	498,853	433,637	679,526	6,327,157	2,982,512	10,921,685
Will	4,486,605	490,026	1,390,295	826,661	1,870,033	8,625,620
Williamson	1,855,431	9,178,066	48,236,427	91,104,463	60,405,598	210,779,985
Woodford	1,446,111	1,540,013	1,478,428	1,520,745	737,519	6,722,816
Other Counties	216,069	108,792	189,041	938,797	470,852	1,923,551
Total	128,657,138	218,502,680	450,166,211	705,219,421	539,145,838	2,041,691,288

TABLE 2-A—COAL PRODUCTION FROM 1931 TO 1953, INCLUSIVE, BY PERIODS ARRANGED BY COUNTIES—ALL MINES

County	Sixth period— 1931-1940 Ten years	Seventh period— 1941-1950 Ten years	Eighth period— 1951-1953 Three years	Total 1931-1953
Bond	656,129	174,319	----------	830,448
Bureau	460,431	3,367,702	2,220,922	6,049,055
Cass	12,817	889	----------	13,706
Christian	38,720,441	68,959,532	19,975,633	127,655,606
Clinton	1,976,633	2,968,284	485,062	5,429,979
Edgar	434,837	289,459	16,743	741,039
Franklin	84,365,198	136,392,580	17,849,889	238,607,667
Fulton	24,869,007	55,236,781	15,969,356	96,075,144
Gallatin	427,445	688,305	463,683	1,579,443
Greene	143,434	9,057	2,547	155,038
Grundy	1,199,275	1,112,193	110,686	2,422,154
Hancock	46,386	206,011	83,749	336,146
Henry	7,202,504	4,383,898	293,449	11,879,851
Jackson	16,106,684	20,077,079	3,812,626	39,996,389
Jefferson	357,017	4,963,823	3,534,692	8,855,532
Jersey	13,403	1,601	390	15,394
Johnson	5,862	----------	----------	5,862
Kankakee	----------	355,333	2,570,222	2,925,555
Knox	5,309,020	18,250,285	5,699,176	29,258,481
LaSalle	4,032,385	2,214,382	51,628	6,298,395
Livingston	214,926	62,003	9,721	286,650
Logan	296,532	492,831	116,274	905,637
Macon	1,271,427	198,056	----------	1,469,483
Macoupin	34,347,434	47,014,366	5,121,988	86,483,788
McDonough	107,857	25,762	148	133,767
McLean	----------	----------	----------	----------
Madison	15,295,897	20,146,096	3,680,059	39,122,052
Marion	3,008,113	2,225,816	527,728	5,761,657
Marshall	96,676	21,130	510	118,316
Menard	1,155,234	576,253	52,425	1,783,912
Mercer	305,517	49,545	990	356,052
Montgomery	7,301,782	8,839,486	3,474,179	19,615,447
Morgan	12,062	14,014	264	26,340
Moultrie	----------	----------	----------	----------
Peoria	12,940,214	6,924,581	1,161,222	21,026,017
Perry	31,977,436	43,939,467	12,605,424	88,522,327
Putnam	484,609	----------	----------	484,609
Randolph	7,794,262	22,509,965	4,452,846	34,757,073
Rock Island	481,594	35,920	----------	517,514
St. Clair	25,983,363	30,533,702	10,762,779	67,279,844
Saline	31,743,987	42,683,827	9,280,657	83,708,471
Sangamon	23,788,847	24,055,382	1,090,384	48,934,613
Schuyler	569,683	1,466,503	88,264	2,124,450
Scott	31,212	622	----------	31,834
Shelby	230,083	18,806	----------	248,889
Stark	167,232	22,420	778	190,430
Tazewell	2,837,975	1,011,295	96,340	3,945,610
Vermilion	20,773,484	15,455,849	2,871,144	39,100,477
Warren	75,288	46,102	4,795	126,185
Washington	3,195,530	3,573,989	74,260	6,843,779
Will	11,757,800	14,449,040	684,622	26,891,462
Williamson	24,399,666	41,827,479	16,722,400	82,949,545
Woodford	730,978	219,634	2,539	953,151
Other Counties	437,363	356,717	565,188	1,359,268
Total	450,152,971	648,448,171	146,588,381	1,245,189,523

TABLE 3—COUNTIES ARRANGED IN ORDER OF RANK OF OUTPUT IN EACH PERIOD

The following tables are arranged to show the rank of the Counties according to the output in each of the periods, 1882-1930 and 1931-1954.

	First period—1882-1892	Second period—1893-1902	Third period—1903-1912	Fourth period—1913-1922	Fifth period—1923-1930	Total 1882-1930
1	St. Clair	Sangamon	Williamson	Franklin	Franklin	Franklin
2	Macoupin	St. Clair	Sangamon	Williamson	Williamson	Williamson
3	LaSalle	Macoupin	St. Clair	Sangamon	Macoupin	Sangamon
4	Sangamon	Vermilion	Macoupin	Macoupin	Sangamon	Macoupin
5	Grundy	LaSalle	Madison	St. Clair	Saline	St. Clair
6	Madison	Grundy	Vermilion	Saline	Christian	Madison
7	Vermilion	Bureau	Saline	Madison	St. Clair	Vermilion
8	Peoria	Madison	Fulton	Vermilion	Vermilion	Saline
9	Jackson	Williamson	Bureau	Montgomery	Madison	Christian
10	Bureau	Jackson	LaSalle	Christian	Perry	Perry
11	Will	Christian	Perry	Perry	Montgomery	Fulton
12	Fulton	Perry	Franklin	Fulton	Fulton	Montgomery
13	Perry	Marion	Montgomery	Peoria	Jackson	LaSalle
14	Livingston	Peoria	Christian	Randolph	Peoria	Bureau
15	Christian	Fulton	Grundy	Clinton	Randolph	Peoria
16	Mercer	Mercer	Marion	Bureau	Clinton	Jackson
17	Marion	Clinton	Clinton	LaSalle	Tazewell	Grundy
18	Menard	Menard	Peoria	Marion	Marion	Marion
19	Williamson	Marshall	Jackson	Jackson	LaSalle	Clinton
20	Macon	Randolph	Randolph	Washington	Washington	Randolph
21	Logan	Montgomery	Mercer	Putnam	Grundy	Mercer
22	Henry	Livingston	Marshall	Tazewell	Bureau	Tazewell
23	McLean	Macon	Logan	Logan	Bond	Logan
24	Woodford	Logan	Menard	Marshall	Will	Marshall
25	Rock Island	McLean	Putnam	Grundy	Logan	Menard
26	Randolph	Woodford	Macon	Mercer	Macon	Washington
27	McDonough	Henry	Livingston	Macon	Henry	Livingston
28	Saline	Tazewell	Tazewell	Moultrie	Knox	Putnam
29	Clinton	Bond	Woodford	Bond	Marshall	Macon
30	Tazewell	Kankakee	McLean	Menard	Putnam	Will
31	Kankakee	Saline	Henry	Woodford	Woodford	Woodford
32	Marshall	Shelby	Will	Gallatin	Mercer	Bond
33	Knox	McDonough	Bond	Shelby	Jefferson	Henry
34	Washington	Knox	Shelby	Randolph	Menard	McLean
35	Bond	Will	Gallatin	Will	Shelby	Shelby
36	Montgomery	Rock Island	Rock Island	McLean	Gallatin	Rock Island
37	Gallatin	Washington	Washington	Rock Island	Livingston	Gallatin
38	Stark	Gallatin	Knox	Henry	Rock Island	Knox
39	Schuyler	Jefferson	McDonough	Knox	Moultrie	McDonough
40	Warren	Stark	Stark	McDonough	Schuyler	Moultrie
41	Scott	Scott	Kankakee	Schuyler	McLean	Kankakee
42	Greene	Warren	Jefferson	Stark	McDonough	Jefferson
43	Johnson	Schuyler	Scott	Jefferson	Stark	Stark
44	Shelby	Greene	Warren	Greene	Edgar	Schuyler
45	Morgan	Cass	Schuyler	Warren	Warren	Scott
46	Edgar	Hancock	Greene	Johnson	Greene	Warren
47	Hancock	Johnson	Hancock	Hancock	Scott	Greene
48	Cass	Jersey	Moultrie	Scott	Cass	Hancock
49	Jersey	Morgan	Morgan	Cass	Hancock	Johnson
50	Jefferson	Edgar	Johnson	Jersey	Johnson	Cass
51	Franklin	Franklin	Edgar	Morgan	Morgan	Edgar
52	----------	----------	Jersey	----------	Jersey	Morgan
53	----------	----------	Cass	----------	Kankakee	Jersey

TABLE 3-A—COUNTIES ARRANGED IN ORDER OF RANK OF OUTPUT IN EACH PERIOD

	Sixth period— 1931-1940	Seventh period— 1941-1950	Eighth period— 1951-1953	Total 1931-1954
1	Franklin	Franklin	Christian	Franklin
2	Christian	Christian	Franklin	Christian
3	Macoupin	Fulton	Williamson	Fulton
4	Perry	Macoupin	Fulton	Perry
5	Saline	Perry	Perry	Macoupin
6	St. Clair	Saline	St. Clair	Saline
7	Fulton	Williamson	Saline	Williamson
8	Williamson	St. Clair	Knox	St. Clair
9	Sangamon	Sangamon	Macoupin	Sangamon
10	Vermilion	Randolph	Randolph	Jackson
11	Jackson	Madison	Jackson	Madison
12	Madison	Jackson	Madison	Vermilion
13	Peoria	Vermilion	Jefferson	Randolph
14	Will	Knox	Montgomery	Knox
15	Randolph	Will	Vermilion	Will
16	Montgomery	Montgomery	Kankakee	Peoria
17	Henry	Peoria	Bureau	Montgomery
18	Knox	Jefferson	Peoria	Henry
19	LaSalle	Henry	Sangamon	Jefferson
20	Washington	Washington	Will	Washington
21	Marion	Bureau	Marion	LaSalle
22	Tazewell	Clinton	Clinton	Bureau
23	Clinton	Marion	Gallatin	Marion
24	Macon	LaSalle	Henry	Clinton
25	Grundy	Schuyler	Logan	Tazewell
26	Menard	Grundy	Grundy	Kankakee
27	Woodford	Tazewell	Tazewell	Grundy
28	Bond	Gallatin	Schuyler	Schuyler
29	Schuyler	Menard	Hancock	Menard
30	Putnam	Logan	Washington	Gallatin
31	Rock Island	Kankakee	Menard	Macon
32	Bureau	Edgar	LaSalle	Woodford
33	Edgar	Woodford	Edgar	Logan
34	Gallatin	Hancock	Livingston	Bond
35	Jefferson	Macon	Warren	Edgar
36	Mercer	Bond	Greene	Rock Island
37	Logan	Livingston	Woodford	Putnam
38	Shelby	Mercer	Mercer	Mercer
39	Livingston	Warren	Stark	Hancock
40	Stark	Rock Island	Marshall	Livingston
41	Greene	McDonough	Jersey	Shelby
42	McDonough	Stark	Morgan	Stark
43	Marshall	Marshall	McDonough	Greene
44	Warren	Shelby	----------	McDonough
45	Hancock	Morgan	----------	Warren
46	Scott	Greene	----------	Marshall
47	Jersey	Jersey	----------	Scott
48	Cass	Cass	----------	Morgan
49	Morgan	Scott	----------	Jersey
50	Johnson	----------	----------	Cass
51	----------	----------	----------	Johnson

TOTAL PRODUCTION OF THE STATE

We have no record of the amount of coal mined from 1810 to 1832 except a few references which indicate but a few thousand tons for that period. From 1833 to and including 1881, as we have shown, a total of 73,386,123 tons was produced. For the period 1882 to January 1, 1954, the output is 3,287,348,040 tons, making a total production of 3,360,734,163 tons. To January 1, 1955, the total production is 3,402,509,915 tons.

The number of mines operated, men employed, average days worked, tons of coal produced, average tons per day and the average tons per man per day, from 1882 to January 1, 1954, are shown in the table following:

Table 4—Number of mines operated, men employed, average days worked, tons produced, average tons per day and the average tons per man per day, 1882-1954

Year	Mines operated	Men employed	Average days worked	Tons produced	Average tons per day	Average tons per man per day
1882	704	20,290	190	9,115,661	47,977	2.4
1883	637	23,939	195	10,508,785	53,891	2.3
1884	739	25,575	204	10,101,004	49,514	1.9
1885	778	25,946	200	9,791,874	48,959	1.9
1886	786	25,846	185	9,246,435	49,982	1.9
1887	801	26,804	190	10,278,890	54,099	2.0
1888	833	29,410	194	11,855,188	61,109	2.1
1889	851	30,076	189	11,597,963	61,365	2.0
1890	811	28,574	175	12,638,364	72,219	2.5
1891	898	32,951	192	15,660,698	81,566	2.5
1892	833	33,632	191	17,862,276	93,520	2.8
1893	779	35,390	201	19,949,564	99,252	2.8
1894	822	38,477	173	17,113,576	98,922	2.6
1895	844	38,630	178	17,735,864	99,645	2.6
1896	868	37,032	172	19,786,626	115,038	3.1
1897	853	33,788	169	20,072,758	118,773	3.5
1898	881	35,026	165	18,599,299	112,723	3.2
1899	889	36,901	181	23,434,445	129,472	3.5
1900	920	39,384	183	25,153,929	137,453	3.5
1901	915	44,143	174	26,635,319	153,364	3.5
1902	915	46,003	177	30,021,300	169,612	3.7
1903	930	49,814	192	34,955,400	182,059	3.7
1904	932	54,774	185	37,077,897	200,421	3.7
1905	990	59,230	167	37,183,374	222,655	3.8
1906	1,018	62,283	177	38,317,581	216,433	3.5
1907	933	66,714	180	47,798,621	265,548	4.0
1908	922	70,841	180	49,272,436	273,736	3.9
1909	886	72,733	177	49,163,710	277,761	3.8
1910	881	74,634	172	48,717,853	283,243	3.8
1911	845	77,410	165	50,165,099	304,031	3.9
1912	879	79,411	160	57,514,240	359.464	4.5
1913	840	79,947	170	61,846,204	363,801	4.6
1914	796	80,035	162	60,715,795	374,789	4.7
1915	779	75,607	158	57,601,694	364,517	4.8
1916	803	75,919	163	63,673,530	390,635	5.1
1917	810	80,893	179	78,983,517	441,250	5.4
1918	966	91,372	183	89,979,469	491,691	5.4
1919	937	90,897	160	75,099,784	469,374	5.2
1920	938	88,192	159	73,920,653	464,910	5.3
1921	1,035	95,763	152	80,121,948	527,118	5.5
1922	1,133	98,090	134	63,276,827	472,215	4.8
1923	1,136	103,566	146	75,514,095	517,220	5.0
1924	1,032	99,765	140	72,308,665	516,490	5.2

TABLE 4—Concluded

Year	Mines operated	Men employed	Average days worked	Tons produced	Average tons per day	Average tons per man per day
1925*	913	81,684	204	103,186,166	505,815	6.2
1926	921	77,732	131	69,813,255	532,925	6.9
1927	906	78,572	119	46,949,700	394,535	5.0
1928	857	65,508	132	56,211,082	425,841	6.5
1929	803	58,596	133	61,127,759	459,607	7.8
1930	939	56,011	120	54,035,116	450,293	8.0
1931	994	53,550	124	45,152,623	364,134	6.8
1932	1,093	51,554	124	34,120,786	275,168	5.3
1933	1,266	48,464	119	38,320,125	322,018	6.6
1934	1,347	49,499	122	41,724,078	342,001	6.9
1935	1,350	49,100	112	45,013,278	401,904	8.2
1936	1,242	49,142	120	51,475,899	428,966	8.7
1937	1,020	46,580	132	52,432,255	397,214	8.5
1938	969	43,420	125	42,387,368	339,099	7.8
1939	976	40,909	125	47,627,454	381,020	9.3
1940	893	38,019	125	51,871,704	414,974	10.9
1941	866	37,587	129	55,365,835	429,193	11.4
1942	685	36,041	144	65,746,204	456,571	12.7
1943	485	32,852	181	73,344,761	405,220	12.3
1944	389	32,019	195	77,400,031	396,923	12.4
1945	380	31,109	203	73,446,930	361,808	11.6
1946	373	32,476	165	63,767,082	386,467	11.9
1947	362	32,686	186	68,325,241	367,340	11.2
1948	342	32,924	171	66,166,805	386,940	11.7
1949	337	31,434	130	47,630,380	366,388	11.7
1950	350	31,067	140	57,282,303	409,159	13.2
1951	302	29,329	140	54,869,679	391,926	13.4
1952	263	23,821	137	45,752,588	333,960	14.0
1953	232	18,945	136	45,966,114	337,986	17.8

* From July 1, 1924 to December 31, 1925.

TONNAGE TAKEN FROM THE DIFFERENT SEAMS OF COAL

Beginning with 1903, coal taken from the various seams has been made a matter of record and is presented in tabular form by years. It will be seen that seams Nos. 1, 2, 5, 6 and 7 have produced more than 99.7 per cent of the total output. No. 6 seam has yielded by far the greatest tonnage. (Bulletin No. 78, "Minable Coal Reserves of Illinois", includes detailed information upon our coal seams.)

The list following is prepared to show from 1903 the tons taken from the various seams and the per cent of the total contributed by each.

TABLE 5—TONNAGE TAKEN FROM DIFFERENT SEAMS, 1903-1954

Year	Number one	Number two	Number five	Number six	Number seven	Other seams	Total
1903	814,098	5,802,943	11,369,134	11,379,930	4,300,240	10,192	33,676,537
1904	731,905	5,701,045	11,848,075	12,750,210	4,743,297	4,985	35,779,517
1905	664,470	5,729,476	11,159,660	13,353,739	5,049,198	----------	35,956,543
1906	563,451	5,311,018	12,269,985	13,366,632	5,609,485	2,240	37,122,811
1907	530,428	5,624,184	11,113,835	22,467,845	6,700,547	----------	46,436,839
1908	470,922	5,535,798	10,503,742	29,805,508	1,404,550	89,210	47,809,730
1909	428,439	5,696,998	10,934,538	29,138,978	1,667,197	92,412	47,958,562
1910	338,511	4,678,373	10,691,436	29,611,564	1,854,328	50,989	47,225,201
1911	283,999	4,179,742	11,513,432	30,673,265	2,045,747	62,472	48,758,657
1912	406,375	4,327,875	12,957,599	36,673,889	866,466	864,491	56,096,695
1913	412,734	4,506,026	13,006,968	40,975,466	1,051,347	562,875	60,515,416
1914	444,112	4,186,043	11,735,171	40,609,685	1,833,884	570,287	59,379,182
1915	353,434	3,355,529	11,231,763	39,810,296	341,149	1,080,385	56,172,556
1916	499,930	3,941,707	12,231,580	42,545,811	2,668,148	396,060	62,283,236
1917	307,462	4,144,670	15,033,726	55,510,559	1,948,616	467,021	77,412,054
1918	430,542	4,072,479	18,086,543	60,054,310	5,218,538	443,816	88,306,228
1919	326,819	3,166,176	13,649,453	52,590,161	3,729,333	289,779	73,751,721
1920	300,405	2,838,892	14,096,645	50,840,044	3,997,885	335,739	72,409,610
1921	302,122	2,229,087	13,884,483	57,166,695	4,454,252	302,443	78,339,082
1922	239,421	1,492,282	12,877,710	42,717,586	3,835,759	243,335	61,406,093
1923	118,111	767,824	17,649,542	50,559,819	3,297,154	1,018,387	73,410,837
1924	311,690	1,573,997	15,955,506	51,358,867	1,124,303	----------	70,324,363
1925†	375,166	2,010,226	20,530,477	75,815,245	1,281,185	----------	100,012,299
1926	251,904	1,046,014	13,700,165	52,237,218	595,132	6,008	67,836,441
1927	425,769	389,352	9,580,520	34,522,675	----------	8,117	44,926,433
1928	130,424	280,518	10,509,204	41,924,627	1,203,969	235,442	54,284,184
1929	281,648	1,129,750	11,217,847	45,239,351	1,196,088	11,311	59,075,995
1930	339,329	1,464,697	10,275,953	38,195,497	1,697,933	23,199	51,996,608
1931	325,818	1,869,744	8,962,681	30,761,555	1,141,029	12,231	43,073,058
1932	276,876	1,879,478	5,741,897	22,564,354	922,096	17,698	31,402,399
1933	354,511	1,830,826	6,692,539	25,648,604	764,399	99,798	35,390,677
1934	381,400	1,699,347	7,657,508	27,842,137	963,733	111,402	38,655,527
1935*	732,027	2,246,372	9,745,337	30,696,971	1,481,600	110,971	45,013,278
1936	739,086	2,846,781	11,555,004	35,616,723	620,787	97,518	51,475,899
1937	669,937	2,679,455	10,664,647	37,697,487	646,046	74,683	52,432,255
1938	337,491	2,515,585	9,207,617	29,741,516	577,794	7,365	42,387,368
1939	233,980	2,411,550	11,752,107	32,649,822	577,549	2,446	47,627,454
1940	246,978	2,622,642	10,859,877	37,530,763	592,646	18,798	51,871,704
1941	352,194	2,417,572	12,790,892	39,212,105	576,194	16,878	55,365,835

TABLE 5—Concluded

Year	Number one	Number two	Number five	Number six	Number seven	Other seams	Total
1942	447,741	2,351,635	16,397,823	45,236,734	1,291,361	20,910	65,746,204
1943	481,773	2,517,685	15,819,192	54,180,655	337,051	8,405	73,344,761
1944	447,085	2,583,393	16,799,235	57,278,458	264,969	26,891	77,400,031
1945	298,833	2,494,353	14,528,022	55,778,236	315,154	32,332	73,446,930
1946	267,407	2,221,179	13,426,788	47,590,781	259,047	1,880	63,767,082
1947	265,040	2,121,423	16,841,151	48,774,895	312,217	10,515	68,325,241
1948	249,900	2,043,107	15,676,619	47,323,092	856,923	17,164	66,166,805
1949	257,771	1,362,602	11,622,098	33,744,079	627,250	16,580	47,630,380
1950	316,539	310,062	14,566,974	40,242,973	1,811,657	34,098	57,282,303
1951	232,518	1,421,431	13,258,625	38,953,418	985,654	18,033	54,869,679
1952	157,304	187,980	11,655,131	31,947,084	1,790,411	14,678	45,752,588
1953	73,584	322,379	11,213,621	32,635,271	1,653,990	67,269	45,966,114
Total	19,229,413	140,139,302	637,050,077	1,985,543,185	93,085,287	8,009,738	2,883,057,002
Per cent of total contributed by each seam	0.7	4.8	22.1	68.9	3.2	0.3	100.0

† July 1, 1924 to December 31, 1925.

* The table to and including 1934 contains coal tonnages from shipping mines only. Beginning with 1935 the tonnages per year include both shipping mines and local mines.

A BRIEF HISTORY OF STRIP MINING

Coal strip mining was begun nearly 75 years ago in Vermilion County where the coal seam was overlaid by a thin cover. Open cut or strip mining has been defined as the relatively simple process of removing the soil overlying shallow mineral deposits and of mining directly from the exposed seams. In the early days of the industry, this was true. Prior to 1910, overburden covering the coal deposits was removed by teams of horses and mules and slip or wheel scrapers. Such methods, of course, limited the operations to areas in which little or no deposits of rock formation were present. While it was possible at that early date to drill and blast rock, its removal by scraper methods was not economically feasible. As a result of the somewhat primitive methods employed in uncovering the coal seam, there were no large scale operations and the quantity of coal produced by this method was relatively small. The stripping method has been carried on continuously in this field to the present time (1-1-55) and has been extended to some twenty additional counties.

The first strip mine producing coal for shipment by rail went into operation about 1910. This was made possible by the application of mechanical equipment for removing the overburden in larger quantities. Excavating shovels that were in use in the construction industry began to make their appearance in strip mining. These shovels operated by steam power and were mounted on wheels which rolled on tracks. The advantage of such equipment was immediately apparent. With the advent of the stripping shovel for removing the overburden, steam powered equipment also began to be used in loading the coal from the seam. Railroad tracks, usually narrow gauge, were laid into the pits and the coal hauled out by steam powered locomotives.

Even though the introduction of mechanical equipment for the removal of overburden and loading and hauling the coal increased the productivity of the stripping operations, they were still confined to areas in which the overburden consisted largely of top soil and the softer unconsolidated strata. As a result, the coal produced by the new industry consisted entirely of outcrop coal. The cost advantages of stripping soon became apparent and more attention was given to drilling and blasting portions of the bank in order that it could be moved by the stripping equipment. This continued year after year, and the operations moved into areas overlaid by deeper overburden.

By 1920, stripping equipment of special design had been constructed so that in many instances depths of overburden up to 45 or 50 feet was being removed. Shovel dippers of 5 and 6 yard capacity were common. In the early 20's, electrically powered stripping equipment became available and about the same time the practice of mounting stripping equipment on continuous crawlers became standard practice. In 1926 an electrically powered, crawler-mounted shovel with a

95 foot boom and 12 cubic yard dipper was constructed and became an immediate success. Since that time, stripping equipment has grown by leaps and bounds. At present it is all electrically powered, shovels of 40 and 45 cubic yard capacity are quite common, and even larger equipment has been engineered or is under construction.

The growth in size of stripping equipment was made possible by continually improving methods for drilling and blasting the overburden to be handled. At the present time, banks up to 65 feet in height, composed largely of rock strata, are quite common in the stripping industry, and it is not unusual to find banks up to 90 to 100 feet being moved under special circumstances. Along with the development of the large stripping shovel has come into use the so-called "walking dragline" which employs booms up to 250 feet in length and buckets up to 35 cubic yard capacity. Under favorable conditions these draglines carry on a complete overburden stripping operation, and in other cases work in tandem with stripping shovels.

In 1946 another type of stripping equipment made its debut in the Illinois strip fields. This machine, known as the Kolbe Wheel Excavator, consisted of a revolving wheel on which was mounted eight excavating buckets that discharged onto a belt conveyor for disposal in the waste bank some 350 feet distant.

In 1920, 0.6% of the 73,920,653 tons produced by the bituminous coal industry in Illinois was produced by strip mining methods. In 1953, 36.29% of the 45,966,114 tons of bituminous coal produced was mined by stripping.

Coal being a non-renewable natural resource, strip mining is a conservation measure. In strip mining, 95% to 98% of the coal is recovered whereas in shaft mines the basis of recovery is from 50% to 60%. Since strip mining began in Illinois to the end of 1953, 339,414,839 tons have been produced by that method. The ten counties leading the production of strip coal are:

Fulton	92,740,578 tons	Williamson	20,288,620 tons
Perry	66,047,276 tons	Jackson	18,693,709 tons
Will	28,684,776 tons	Randolph	15,815,049 tons
Knox	22,613,013 tons	Vermilion	15,381,096 tons
St. Clair	21,277,299 tons	Saline	13,429,722 tons

and these ten counties account for a total of 314,971,138 tons or 92.8% of the total coal produced by strip mining since the beginning of records on January 1, 1911.

STRIP MINE RECLAMATION

Reclamation of the strip mine lands began in 1930 when a trial tree planting was made on one of the mine properties in Fulton County. It was not, however, until 1939 that a substantial tree planting program was begun, at which time more than a million trees were planted. Since that date a total of 12,912,873 trees have been planted on the strip mine banks in Illinois. This was aided by a research program entered into with the Central States Forest Experiment Station for the purpose of finding out what kinds and types of trees would grow best on the many types of spoil banks in the different parts of the State.

In 1939 the first experimental planting of grasses and legumes was made in Fulton County and the results were excellent. As a result of these plantings a research program was entered into with the University of Illinois Agricultural Experiment Station on "The Potentialities of Revegetating and Utilizing Agronomic Species on Strip Mined Areas in Illinois", which began January 1, 1947 and is still being carried on. As a result of these two research programs the reclamation of strip mine lands has continued at an accelerated pace during the past five years. Up to December 31, 1953 the following reclamation has been accomplished:

1. Number of acres stripped to December 31, 1953	67,656
2. Number of acres which have been topped by having the ridges struck off	3,700
3. Number of acres which have been graded to a point where farm machinery can be used	2,400
4. Number of acres planted with trees	12,266
5. Number of acres covered by volunteer growth	7,000
6. Number of trees planted	12,912,870
7. Number of topped acres planted in grasses or legumes	4,020
8. Number of graded acres planted in grasses or legumes	1,802
9. Number of raw spoil acres planted in grasses or legumes	9,000
10. Number of acres in agricultural crops other than grasses or legumes (corn or small grain)	See No. 16
11. Number of acres used in grazing	9,960
12. Number of livestock grazed in 1953:	
Cattle	2,800
Hogs	300
Sheep	1,600
Other	20

13. Number of acres in orchards 119

14. Number of acres in lakes (acres stocked with fish (1,500) 3,000

15. Number of acres used for recreational purposes* 4,450

16. Approximately 250 acres in small grain in 1953 but it was also seeded to grass and legumes so this is included under Item 8.

Three thousand acres of lakes have been created with more than half of them stocked with fish, and are being used by the public. In addition, more than 4,000 acres of strip banks are being used for recreational purposes by the public through clubs, civic organizations, parks, etc.

It is expected that this reclamation program will continue at an ever-increasing rate and that most of the land which is now being stripped, or has been stripped, will be restored to an economic use.

Since 1920 a record has been made of the production of the strip mines, which is here shown by years; also the percent of the total output produced by these mines.

TABLE 6—TONS PRODUCED BY STRIP MINES, 1920-1954

Year	Production in tons	Per cent of total product
1920	459,484	0.6
1921	528,035	1.1
1922	546,970	0.9
1923	985,736	1.3
1924	1,429,950	2.0
1925**	4,551,481	4.4
1926	3,582,611	5.1
1927	2,757,410	5.9
1928	4,244,017	7.5
1929	5,250,500	8.6
1930	6,220,336	11.9
1931	6,619,903	14.66
1932	6,756,957	19.80
1933	5,714,305	14.91
1934	6,222,244	14.91
1935	7,481,349	16.62
1936	9,347,188	18.15
1937	11,725,870	21.54
1938	10,678,899	25.19
1939	12,285,702	25.79
1940	14,135,077	27.25
1941	14,284,637	25.80
1942	15,937,681	24.24
1943	16,798,439	22.90
1944	18,076,122	23.35
1945	17,011,196	23.16
1946	15,207,804	23.84
1947	17,821,339	26.08
1948	17,875,540	27.01
1949	13,952,202	29.29
1950	17,640,466	30.79
1951	18,309,970	29.96
1952	16,715,635	36.53
1953	16,680,336	36.28

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* Includes areas leased to sportsmen's clubs, etc., and donated to states for parks, etc.

** From July 1, 1924 to December 31, 1925.

PRODUCTION OF STRIP MINES BY COUNTIES, 1911-1954

The following strip mines statistics have been compiled from the yearly Coal Reports of Illinois, Department of Mines and Minerals, 1911 through 1953, with such adjustments as were possible from the records of the Illinois Coal Strippers Association. These adjustments do not affect the total production for the State but are made where it was known that certain tonnages reported in a county were actually produced in another county. Illustrative of this are Fulton and Knox Counties where coal produced in Knox County was tippled at Middle Grove in Fulton County and in the Reports prior to 1950 was credited to Fulton County. Our own records showed the actual tonnage produced in each county and we adjusted the totals to properly report the correct tonnage produced in each county.

A. J. Christiansen, *Secretary*,
Illinois Coal Strippers Association

Table 7—Report of yearly tonnages of Illinois strip mines by counties

Year	Vermilion	Perry	Williamson	Fulton	Jackson	Saline
1911	45,153	----------	----------	----------	----------	----------
1912	53,762	----------	----------	----------	----------	----------
1913	117,790	----------	----------	----------	----------	----------
1914	181,520	----------	----------	----------	----------	----------
1915	195,486	----------	----------	----------	----------	----------
1916	344,372	----------	----------	----------	----------	----------
1917	419,475	----------	----------	----------	----------	----------
1918	498,347	----------	----------	----------	----------	----------
1919	393,894	----------	----------	----------	----------	----------
1920	459,484	----------	----------	----------	----------	----------
1921	528,035	----------	----------	----------	----------	----------
1922	546,970	----------	----------	----------	----------	----------
1923	855,411	124,824	5,501	----------	----------	----------
1924	624,783	112,100	279,039	60,741	171,845	181,442
1925	1,294,846	567,367	767,019	858,592	714,000	349,657
1926	499,152	558,139	598,246	822,129	748,729	200,279
1927	501,475	426,049	328,036	740,083	612,726	81,635
1928	595,581	1,036,593	365,308	753,693	838,797	85,890
1929	267,982	1,657,130	398,916	756,789	896,387	128,383
1930	420,441	2,251,321	181,535	885,249	805,337	192,365
1931	331,601	2,410,081	34,345	780,743	841,055	165,439
1932	368,783	2,585,530	26,704	766,417	803,506	288,375
1933	227,720	2,201,466	96,681	642,150	572,079	266,792
1934	45,459	2,349,823	132,490	959,633	612,785	269,549
1935	100,767	2,465,705	541,256	1,480,106	664,350	269,697
1936	145,632	2,525,377	722,585	2,099,901	656,713	456,367
1937	155,935	2,844,531	606,241	2,683,525	624,594	799,425
1938	173,533	2,390,450	531,600	2,540,397	483,949	724,790
1939	155,792	2,339,543	687,677	3,275,376	621,648	759,460
1940	214,573	2,670,853	769,944	3,596,456	615,721	821,406
1941	270,590	2,868,127	712,574	4,214,063	740,734	824,997
1942	241,346	3,004,203	781,911	5,403,838	515,980	581,558
1943	56,238	2,671,479	791,454	6,001,721	619,189	628,401
1944	39,431	2,785,685	859,068	6,373,429	584,815	573,256
1945	83,400	2,830,681	751,809	5,554,336	515,287	665,779
1946	48,595	2,492,000	875,786	5,193,195	493,527	699,629
1947	97,533	2,657,817	1,403,891	6,268,216	449,356	644,911
1948	116,001	2,798,729	1,388,073	5,482,690	456,066	672,890
1949	493,905	2,145,855	821,081	3,892,815	404,504	557,934
1950	609,844	2,984,828	1,084,065	5,121,664	715,178	355,888
1951	922,035	2,800,492	1,158,349	5,334,387	665,842	322,436
1952	861,935	2,433,861	1,276,425	4,948,856	630,875	353,944
1953	776,489	2,056,637	1,311,011	5,249,388	618,135	507,148
Total	15,381,096	66,047,276	20,288,620	92,740,578	18,693,709	13,429,722

TABLE 7—Continued

Year	Gallatin	St. Clair	Edgar	Johnson	LaSalle	Livingston	Peoria
1925	24,177	---	---	---	---	---	---
1926	---	155,937	---	---	---	---	---
1927	---	50,525	16,881	---	---	---	---
1928	---	403,357	24,345	565	5,170	4,347	5,748
1929	---	422,821	3,100	---	12,342	2,783	---
1930	---	275,320	---	---	---	1,223	---
1931	---	369,984	---	---	7,365	6,323	8,176
1932	---	252,950	---	---	13,973	15,298	9,319
1933	---	90,114	---	---	4,400	11,224	5,169
1934	---	63,130	---	---	38,463	5,666	2,600
1935	---	125,810	---	---	113,102	1,733	1,700
1936	---	422,340	---	---	223,899	679	920
1937	---	453,983	27,087	---	231,661	758	---
1938	---	476,358	53,210	---	157,737	1,298	4,767
1939	---	800,396	71,084	---	179,605	3,972	10,335
1940	---	996,946	11,535	---	207,379	8,395	23,123
1941	---	1,006,630	---	---	176,415	2,605	---
1942	---	1,056,028	---	---	172,252	1,013	---
1943	---	1,140,248	---	---	147,925	594	---
1944	---	1,069,697	---	---	120,338	2,899	---
1945	22,919	940,966	---	---	116,196	8,886	---
1946	---	1,018,397	---	---	81,988	6,509	556
1947	---	1,147,172	---	---	108,376	6,503	2,200
1948	---	1,028,870	---	---	86,746	6,013	19,060
1949	---	1,300,358	---	---	56,149	7,408	29,692
1950	---	1,556,902	---	---	23,730	7,267	61,549
1951	57,188	1,560,182	---	---	9,678	2,891	150,136
1952	---	1,563,533	---	---	9,766	2,771	256,943
1953	---	1,528,345	---	---	6,683	4,059	312,389
Total	104,284	21,277,299	207,242	565	2,311,338	123,117	904,382

Year	Will	Henry	Knox	Hancock	McDonough	Schuyler
1928	226,368	---	---	---	---	---
1929	701,280	40,673	72	---	---	---
1930	865,666	397,510	---	---	---	---
1931	988,500	661,317	---	40	2,184	12,750
1932	976,178	616,901	4,302	---	6,630	6,965
1933	982,016	583,287	27,638	---	1,496	1,816
1934	968,951	490,018	818	842	2,569	4,821
1935	1,068,581	476,973	329	900	623	3,338
1936	1,483,026	496,252	10,665	---	174	3,773
1937	1,393,077	536,564	487,549	---	---	478
1938	1,323,386	538,684	499,919	---	142	2,513
1939	1,226,826	630,184	603,363	---	283	4,957
1940	1,347,259	616,165	542,647	14,178	200	13,939
1941	1,285,823	510,113	591,770	28,861	3,359	59,445
1942	1,283,193	549,014	1,157,553	15,637	5,661	103,614
1943	1,545,864	530,683	1,385,935	---	1,392	216,482
1944	1,779,552	523,436	1,939,780	---	---	235,708
1945	1,735,678	421,667	1,727,978	---	---	186,105
1946	1,416,726	418,731	1,096,687	---	697	129,535
1947	1,707,956	---	1,230,354	18,758	1,000	109,785
1948	1,664,282	---	2,048,898	47,077	12	130,606
1949	1,109,555	---	1,534,177	53,727	---	27,365
1950	920,411	---	1,928,530	40,446	---	25,987
1951	446,814	---	2,043,152	41,030	---	12,085
1952	101,725	---	1,668,539	31,586	---	8,990
1953	136,083	---	1,798,857	11,133	---	8,947
Total	28,684,776	9,038,172	22,613,013	304,215	26,422	1,310,004

TABLE 7—Continued

Year	Grundy	Pike	Shelby	Warren	Adams	Brown	Bureau
1932	12,966	2,160					
1933			125	132			
1934	54,385		500		64	1,041	1,621
1935	59,360		300		412	855	1,500
1936	87,196				112	440	115
1937	101,488				909	19,451	
1938	67,676				21,024	210	4,576
1939	56,003	64			12,358	68	1,053
1940	53,786				7,379	375	
1941	60,129					535	48
1942	60,333				151	31	66,487
1943	49,074					60	118,646
1944	30,237						100,920
1945	142,321						119,320
1946	207,190					1,570	87,389
1947	211,581					172	694,002
1948	170,739					2	694,720
1949	89,034						565,966
1950	37,218					207	723,836
1951	30,423						811,238
1952	27,252						722,236
1953	20,176						687,448
Total	1,628,567	2,224	925	132	42,409	25,017	5,401,121

Year	Crawford	Jefferson	Jersey	Madison	Richland	Randolph	Scott	Greene
1934	400	541	90	28,109	35			
1935	531	957	70	9,734				
1936		420				10,602		
1937		380				758,234		
1938		354	237			682,089		
1939	900	508	167			841,421	2,598	61
1940	4,587	474				739,991	1,186	
1941	10,283	167				880,861	6	
1942		34				937,764		
1943		66				891,911		
1944		23				1,057,048		
1945						1,187,295		
1946		35				938,685		
1947		42				1,061,714		
1948			456			1,063,583		
1949			220			857,504		
1950			660			1,073,177		930
1951			390			1,081,812		1,020
1952						944,877		132
1953						806,481		
Total	16,701	4,001	2,290	37,843	35	15,815,049	3,790	2,143

TABLE 7—Concluded

Year	Marshall	Morgan	Kankakee	Mercer	Yearly totals	Total production	Per cent stripped
1911					45,153	50,165,099	0.09
1912					53,762	57,514,240	0.09
1913					117,790	61,846,204	0.2
1914					181,520	60,715,795	0.3
1915					195,486	57,601,694	0.3
1916					344,372	63,673,530	0.5
1917					419,475	78,983,527	0.5
1918					498,347	89,979,469	0.6
1919					393,894	75,099,784	0.5
1920					459,484	73,920,653	0.6
1921					528,035	80,121,948	0.7
1922					546,970	63,276,827	0.9
1923					985,736	75,514,095	1.3
1924					1,429,950	72,308,665	1.9
1925					4,575,658	66,174,485	6.9
1926					3,582,611	69,813,255	5.1
1927					2,757,410	46,949,700	5.9
1928					4,345,762	56,211,082	7.7
1929					5,288,658	61,127,759	8.7
1930					6,275,967	54,035,116	11.6
1931					6,619,903	45,152,623	14.7
1932					6,756,957	34,120,786	19.8
1933					5,714,305	38,320,125	14.9
1934					6,225,244	41,724,078	14.9
1935					7,481,349	45,013,278	16.6
1936					9,347,188	51,475,899	18.2
1937					11,725,870	52,432,255	22.4
1938					10,678,899	42,387,368	25.2
1939					12,285,702	47,627,454	25.8
1940					13,278,497	51,282,602	25.9
1941	50				14,248,185	55,365,835	25.7
1942	80				15,937,681	65,746,204	24.2
1943	1,077				16,798,439	73,344,761	22.9
1944	800				18,076,122	77,400,031	23.4
1945	543				17,011,166	73,446,930	23.2
1946	377				15,207,804	63,767,082	23.8
1947					17,821,339	68,325,241	26.0
1948		27			17,875,540	66,166,805	27.0
1949	749	4,204			13,952,202	47,630,380	29.3
1950	1,103	9,069	355,333	2,844	17,640,466	57,282,303	30.8
1951		264	857,916	10	18,309,970	54,869,679	33.37
1952			871,379		16,715,635	45,752,588	36.53
1953			840,927		16,680,336	45,966,114	36.29
Total	4,779	13,564	2,925,555	2,854	339,414,839		

OUTPUT PER MONTH

Monthly production of the shipping mines has been recorded for the past fifty-three years. Prior to 1925 the Annual Coal Report was made for the fiscal year, but in order to show the monthly production each calendar year, the following table is given, arranged in order from 1906 to 1954.

Occasionally coal is accredited to an adjoining county. This is due to a portion of the mine crossing a county line. Our practice has been and will continue to be to credit the deep mining coal tonnage reported, to the county where the tipple is located.

TABLE 8—OUTPUT OF SHIPPING MINES EACH MONTH IN TONS—1906-1954

Year	Month												
	January tons	February tons	March tons	April tons	May tons	June tons	July tons	August tons	September tons	October tons	November tons	December tons	Total tons
1906	4,288,706	4,336,350	5,378,459	392,382	659,019	2,556,004	2,884,310	3,244,518	3,478,829	4,282,628	4,343,762	4,613,382	40,458,349
1907	4,852,163	4,254,985	3,731,138	3,572,474	3,784,770	3,393,880	3,544,763	4,112,544	4,222,617	5,279,014	5,097,806	4,837,077	50,683,231
1908	4,408,282	4,566,526	6,055,194	140,640	2,081,853	3,463,414	2,978,427	3,809,419	4,298,981	5,019,764	4,523,011	4,748,402	46,093,913
1909	4,641,015	4,107,510	4,148,613	3,470,361	3,145,748	3,067,311	3,304,331	3,739,383	4,412,740	5,235,386	5,219,082	5,242,614	49,734,094
1910	5,722,496	5,551,940	7,026,402	23,966	109,662	1,637,199	1,769,521	2,413,674	3,580,137	5,451,241	5,876,969	5,768,701	44,931,908
1911	5,038,023	3,957,373	4,209,260	3,671,457	3,548,713	3,473,588	3,688,110	4,449,453	4,582,761	4,292,558	5,699,917	5,809,664	52,420,877
1912	6,004,637	6,435,284	7,836,392	42,593	2,889,866	3,365,460	3,913,798	4,856,510	4,943,939	6,318,120	6,124,572	6,369,690	59,100,861
1913	6,020,294	4,941,348	4,965,154	4,263,300	3,923,992	3,874,699	4,346,836	4,692,165	5,360,090	6,358,147	6,152,173	5,862,280	60,760,478
1914	6,279,536	5,890,184	7,307,128	1,367,631	2,517,608	3,245,404	3,885,020	4,616,379	5,263,681	5,303,326	5,007,272	6,077,525	56,760,694
1915	6,101,484	4,624,608	4,752,467	3,461,450	3,307,916	3,771,428	3,922,707	4,327,453	5,136,941	5,931,347	5,835,871	6,647,985	57,821,657
1916	7,059,672	7,295,853	6,034,778	2,728,120	3,607,507	3,755,002	3,934,914	4,941,314	5,683,600	6,682,117	6,668,805	6,950,611	65,342,293
1917	7,709,842	6,927,510	7,414,860	6,108,525	7,199,070	7,190,886	7,081,164	6,994,872	6,598,971	7,339,515	8,115,879	7,375,866	86,056,960
1918	7,151,438	7,420,893	7,804,880	6,889,472	7,764,220	7,769,058	8,241,553	8,150,310	7,631,595	8,228,109	6,517,099	5,742,115	89,310,742
1919	5,815,888	4,936,335	5,165,796	4,407,906	4,595,638	4,319,377	5,180,539	5,422,986	6,716,210	8,368,944	12,400	4,877,829	59,819,848
1920	8,094,498	7,064,670	8,195,258	5,625,112	6,015,903	6,835,261	5,558,039	7,182,965	7,483,039	8,500,552	8,663,728	9,043,092	88,262,117
1921	7,192,267	5,643,702	5,240,440	4,578,878	4,733,517	4,524,173	4,461,461	5,837,099	5,943,145	7,953,722	6,137,700	6,500,671	68,746,775
1922	7,258,507	7,564,485	9,661,920	27,261	26,388	33,734	13,509	1,613,944	6,894,295	8,047,935	7,617,608	8,157,410	56,916,996
1923	9,091,561	7,798,019	7,442,975	5,876,713	5,565,673	5,291,195	5,014,920	5,905,337	6,459,326	7,017,635	6,589,384	6,564,050	78,616,788
1924	9,146,625	7,173,915	5,445,671	3,689,314	3,714,795	3,603,391	3,897,426	4,540,048	6,239,427	6,845,167	5,841,149	7,334,048	67,470,976
1925	8,171,527	5,084,111	4,866,666	3,700,159	3,870,779	3,789,907	4,278,606	5,293,423	5,365,304	6,834,514	6,576,945	7,483,093	65,315,034
1926	7,028,104	5,280,662	5,741,023	4,706,814	3,774,146	4,026,870	4,281,442	4,819,411	5,277,073	6,501,154	7,936,541	8,463,201	67,836,441
1927	8,249,724	8,041,663	9,528,946	226,147	226,014	260,538	350,422	691,351	963,833	4,649,119	5,430,136	6,308,540	44,926,433
1928	5,873,311	5,753,712	7,395,453	1,220,182	2,556,400	2,947,504	3,158,981	3,816,097	4,327,025	5,931,799	5,420,339	5,883,381	54,284,184
1929	7,001,027	6,459,158	4,309,056	3,560,116	3,810,298	3,413,621	3,785,845	4,398,106	4,766,916	5,716,839	5,412,011	6,443,002	59,075,995
1930	6,560,159	4,784,623	4,133,842	3,674,352	3,354,981	3,033,048	3,274,699	3,716,651	3,997,358	5,251,276	4,787,969	5,427,650	51,996,608
1931	4,910,869	3,810,167	4,297,523	3,040,068	2,973,862	2,775,193	2,816,435	3,336,309	3,384,003	4,059,961	3,530,227	4,138,441	43,073,058
1932	3,838,402	4,179,951	5,983,823	363,773	526,696	603,344	754,864	1,676,136	2,404,392	3,338,466	3,623,977	4,108,575	31,402,399
1933	3,335,862	3,549,192	3,145,171	2,078,449	2,036,464	2,059,674	2,383,220	2,791,977	2,888,181	3,657,337	3,611,034	3,854,116	35,390,677
1934	4,106,319	3,917,258	4,234,877	2,342,935	2,112,730	2,125,718	2,274,176	2,755,409	3,219,010	3,622,931	3,501,698	4,442,466	38,655,527
1935	4,779,807	4,316,606	4,818,273	1,904,042	2,430,891	2,913,961	1,860,593	2,292,631	2,758,627	4,566,074	3,968,945	4,799,964	41,410,414
1936	5,195,718	5,388,183	3,730,409	3,015,473	2,349,044	2,592,448	2,935,184	3,258,442	3,553,350	4,787,407	4,742,935	5,736,994	47,285,587
1937	5,305,782	5,391,588	6,488,787	1,968,898	2,085,197	2,490,421	2,737,338	3,007,656	4,076,821	4,685,330	4,560,609	5,263,649	48,062,076
1938	4,286,099	3,493,826	2,890,527	2,265,105	2,027,065	2,229,914	2,313,349	2,841,415	3,461,199	3,747,041	4,139,842	4,747,477	38,442,859
1939	4,576,797	4,468,960	4,133,034	3,528,418	2,352,303	1,790,162	2,244,302	3,004,719	3,555,234	4,614,719	4,293,966	4,431,493	42,994,107
1940	5,651,273	4,755,769	3,955,947	2,936,592	2,837,854	2,549,456	2,843,880	3,520,947	3,765,199	3,831,870	4,410,506	5,012,513	46,071,806
1941	5,124,419	4,781,370	5,468,572	903,674	3,642,654	3,510,769	4,234,007	4,431,333	4,364,266	4,722,559	4,646,423	5,203,273	51,033,319
1942	5,758,492	5,025,625	4,831,192	4,789,401	4,594,874	4,881,094	4,487,010	4,707,457	5,337,328	5,655,066	5,239,547	5,817,542	61,124,628

TABLE 8—Concluded

Year	Month												
	January tons	February tons	March tons	April tons	May tons	June tons	July tons	August tons	September tons	October tons	November tons	December tons	Total tons
1943	5,507,903	5,671,296	6,691,023	5,890,331	4,894,622	4,175,334	6,111,877	6,139,569	6,176,569	5,749,675	5,296,674	6,666,748	68,971,621
1944	6,637,352	6,455,942	6,659,461	5,868,205	6,166,151	6,226,550	5,628,196	6,356,326	5,819,633	6,063,405	5,963,816	6,113,886	73,958,923
1945	6,657,417	6,010,373	6,488,115	5,366,975	5,491,516	5,863,402	5,254,739	5,409,584	5,545,645	6,551,512	5,921,105	5,761,918	70,322,301
1946	6,564,636	6,069,733	6,692,281	1,133,885	2,383,482	5,649,730	5,259,575	5,962,341	5,752,341	6,534,197	3,948,587	4,981,997	60,932,785
1947	6,616,342	5,752,397	6,154,744	4,164,471	5,639,892	4,425,317	4,010,740	5,075,308	5,554,975	5,755,404	5,398,281	6,064,756	64,612,627
1948	6,173,856	5,791,081	3,807,340	4,045,382	5,565,085	5,119,759	4,754,435	5,264,850	5,143,620	5,802,618	5,410,275	5,616,111	62,494,412
1949	5,302,583	5,376,106	3,687,749	4,217,660	4,066,131	3,361,595	2,815,928	3,878,469	2,118,405	1,319,673	4,966,848	3,661,470	44,772,617
1950	3,481,031	1,184,342	5,807,136	4,548,720	4,596,805	4,883,921	3,353,163	5,214,570	5,056,404	5,339,322	5,287,110	5,604,394	54,356,918
1951	5,904,203	4,584,539	4,543,916	4,114,858	3,737,067	4,056,998	2,869,510	4,179,653	4,082,976	4,909,766	5,085,328	4,526,284	52,595,098
1952	5,159,565	4,171,295	3,681,763	3,100,687	2,889,250	2,932,936	2,240,330	2,802,265	4,471,385	3,217,011	3,972,400	4,635,513	43,274,400
1953	4,179,636	3,499,271	3,691,493	3,377,286	3,073,171	3,121,058	3,010,408	3,523,202	3,893,737	4,088,461	3,820,722	4,568,876	43,847,321
Total	283,815,149	253,540,289	265,674,927	152,390,613	165,257,282	172,980,706	173,944,602	205,015,980	226,011,133	263,959,733	250,948,983	274,290,335	2,687,829,732
Per cent of total	10.56	9.43	9.89	5.67	6.15	6.43	6.47	7.63	8.41	9.82	9.34	10.20	100.00

Beginning with 1915, the number of shipping mines operated and the average number of days worked is shown by months for each calendar year to 1954, in the following table:

TABLE 9—NUMBER OF SHIPPING MINES OPERATED AND AVERAGE NUMBER OF DAYS WORKED EACH MONTH — 1915-1954

Year	January		February		March		April		May		June		July		August		September		October		November		December	
	Mines operated	Average days worked	Mines operated	Average days worked	Mines operated	Average days worked	Mines operated	Average days worked	Mines operated	Average days worked	Mines operated	Average days worked	Mines operated	Average days worked	Mines operated	Average days worked	Mines operated	Average days worked	Mines operated	Average days worked	Mines operated	Average days worked	Mines operated	Average days worked
1915	270	19	265	15	255	15	243	12	230	13	225	13	235	14	239	15	244	18	256	19	260	19	263	21
1916	277	21	280	21	281	18	225	11	231	13	235	14	243	14	261	17	276	18	288	20	302	20	309	21
1917	313	22	315	20	316	21	316	18	318	21	317	21	321	21	324	21	333	20	338	22	343	21	348	21
1918	347	21	353	20	352	20	352	19	354	20	352	21	359	23	358	22	359	21	362	23	365	19	360	16
1919	356	16	342	13	331	14	316	12	309	13	306	13	313	15	328	14	339	18	348	22	10	8	350	14
1920	364	20	365	18	363	19	358	15	358	16	365	18	365	14	370	18	372	18	373	20	375	20	376	21
1921	371	15	356	12	340	11	315	9	300	10	292	9	285	12	300	15	312	15	323	17	324	15	324	14
1922	321	16	311	17	310	20	5	13	8	16	8	15	10	14	317	6	357	16	362	17	364	16	367	17
1923	366	18	366	16	351	15	321	13	291	12	277	12	277	12	283	14	301	15	304	16	299	16	292	15
1924	302	21	298	16	278	13	225	11	196	12	178	13	166	13	182	16	191	16	200	19	205	18	208	20
1925	236	20	231	13	202	14	173	11	162	12	154	13	255	13	188	14	214	16	227	17	225	15	236	18
1926	206	19	205	15	189	17	171	16	157	13	155	13	154	17	169	15	181	16	194	19	223	20	231	21
1927	221	21	219	20	218	22	22	12	19	14	24	16	30	16	58	18	75	19	181	18	185	17	186	19
1928	181	18	178	16	176	20	90	12	106	14	116	14	127	15	131	17	171	15	184	18	186	17	187	18
1929	184	21	184	19	183	14	149	13	145	14	143	13	144	14	157	15	171	16	176	18	178	17	176	20
1930	178	20	172	15	159	13	144	13	130	12	123	12	130	13	144	13	152	14	155	18	163	15	166	17
1931	157	16	147	13	138	16	133	11	121	12	118	12	114	12	121	13	132	13	142	16	144	14	148	16
1932	137	15	136	15	137	20	38	9	39	10	39	10	50	10	86	10	77	15	121	17	136	17	144	18
1933	136	15	138	16	136	13	124	10	106	11	104	10	109	11	122	13	129	13	140	16	142	15	147	16
1934	152	18	152	17	153	17	139	10	125	10	116	11	119	12	135	13	154	15	163	15	161	16	158	19
1935	162	20	162	18	163	18	125	10	124	11	126	12	113	10	129	12	152	14	161	18	164	16	162	19
1936	152	22	154	21	154	14	132	14	115	10	118	11	127	12	128	14	144	15	155	18	158	18	162	20
1937	162	19	158	19	155	22	117	9	102	9	109	11	111	12	121	12	138	16	149	17	153	17	154	19
1938	143	16	142	13	141	11	118	11	102	10	102	11	103	11	112	13	125	15	133	15	135	16	139	18
1939	138	17	136	17	136	16	123	13	116	10	82	10	89	11	105	13	120	15	129	19	131	17	128	18
1940	130	22	130	18	127	15	113	12	98	13	92	11	92	13	102	14	114	16	121	15	126	16	126	19
1941	134	19	134	17	133	12	83	12	114	14	100	14	105	16	122	17	126	16	128	17	130	17	131	11
1942	135	21	131	19	126	17	118	16	112	16	112	18	115	16	120	18	122	19	121	22	123	20	124	23
1943	132	22	132	21	133	24	130	20	130	18	129	16	128	22	131	22	134	22	131	21	133	19	135	23
1944	151	23	150	22	149	23	147	19	147	21	146	21	146	18	148	21	145	20	143	22	145	21	148	23
1945	147	23	147	21	147	22	138	20	139	20	137	20	139	18	139	20	138	19	138	23	138	21	136	22
1946	142	23	141	21	139	22	56	17	127	11	129	20	130	16	136	20	143	21	146	23	143	18	150	11
1947	143	23	141	21	141	21	135	16	130	20	127	14	123	17	135	20	139	21	137	23	139	23	139	22
1948	146	23	146	22	144	16	146	15	149	20	151	19	140	17	138	14	139	18	131	21	132	18	134	20
1949	136	18	134	18	134	13	121	13	116	13	115	12	107	10	118	13	121	10	46	21	138	17	140	15
1950	138	15	127	8	140	19	126	14	111	15	105	16	111	12	122	18	131	17	132	19	133	18	135	19
1951	129	20	127	17	122	15	117	14	104	13	104	14	104	11	109	17	118	15	116	19	116	19	115	18
1952	116	19	114	14	99	15	90	13	82	12	80	13	80	11	85	14	92	18	93	14	94	16	95	18
1953	92	17	92	14	87	15	80	13	73	13	70	13	76	13	84	14	82	16	81	17	86	16	87	18

PRODUCTION OF COAL IN THE UNITED STATES

The importance of Illinois as a coal-producing State will be more vividly seen when compared with other states of the Union. To do this, a table has been compiled from the reports of the United States Bureau of Mines, in which the production is given by states, in periods, from the earliest recorded date to the end of the year 1953. The Illinois rank through the years has varied in second, third and fourth places. For the entire period, it still maintains the status of rank three, a 12.5 per cent of the total production of bituminous coal from the earliest records to the end of 1953.

The table listing percentages throughout the recorded history of coal production through 1929 shows Illinois has produced 13.3 per cent of all the bituminous coal mined in the United States. However, the similar table set up for a comparison from the earliest record through 1953 shows that Illinois has contributed 12.5 per cent of all the bituminous coal mined in the United States.

Not only in the United States is Illinois important as a producer of coal; it also ranks high in the world picture. Illinois produces more coal than any foreign nation except Germany, Russia, Great Britain, and Poland.

TABLE 10—PRODUCTION OF COAL IN THE UNITED STATES FROM THE EARLIEST RECORD TO THE END OF 1929, BY PERIODS

State	Total production from earliest records to end of 1915	Production 1916-1920 five years	Production 1921-1925 five years	Production 1926-1929 four years	Grand total tons produced
Alabama	285,476,000	89,170,000	90,486,000	76,331,923	541,463,923
Arkansas	40,049,000	9,897,000	6,307,000	6,364,108	62,617,108
Colorado	192,158,000	57,976,000	50,244,000	40,129,741	340,507,741
Georgia	9,725,000	463,000	312,000	239,636	10,739,636
Illinois	1,050,880,845	381,656,953	394,407,701	234,101,796	2,061,047,295
Indiana	285,279,000	127,575,000	108,386,000	75,845,358	597,085,358
Iowa	201,667,000	37,858,000	24,760,000	15,501,069	279,786,069
Kansas	143,383,000	32,779,000	19,637,000	13,645,971	209,444,971
Kentucky	249,874,000	150,542,000	218,715,000	254,370,600	873,501,600
Maryland	183,967,000	20,790,000	10,166,000	11,229,114	226,152,114
Michigan	25,351,000	6,506,000	4,882,000	2,865,869	39,604,869
Missouri	127,917,000	25,430,000	15,054,000	13,835,311	182,236,311
Montana	46,994,000	20,042,000	14,403,000	12,673,526	94,112,526
New Mexico	49,214,000	18,639,000	13,858,000	11,087,769	92,798,769
North Dakota	6,458,000	3,936,000	6,102,000	6,410,130	22,906,130
Ohio	723,955,000	203,045,000	157,951,000	83,003,477	1,167,954,477
Oklahoma	67,156,000	21,459,000	13,707,000	13,936,080	116,258,080
Pennsylvania bituminous	3,037,883,000	842,660,000	668,604,000	560,725,241	5,109,872,241
Tennessee	135,425,000	31,037,000	25,388,000	22,588,464	214,438,464
Texas	31,062,000	9,901,000	5,421,000	4,699,668	51,083,668
Utah	40,466,000	23,465,000	22,969,000	19,158,521	106,058,521
Virginia	112,369,000	50,791,000	53,238,000	51,698,306	268,096,306
Washington	69,952,000	17,878,000	13,129,000	10,263,327	111,222,327
West Virginia	936,380,000	431,846,000	485,219,000	560,101,855	2,413,546,855
Wyoming	129,769,000	42,776,000	34,058,000	28,542,790	235,145,790
Other States	45,848,000	469,000	626,000	186,098	47,129,098
Total bituminous	8,228,657,845	2,658,586,953	2,458,029,701	2,129,535,748	15,474,810,247
Per cent of bituminous coal contributed by:—					
Illinois	12.8	14.4	16.0	11.0	13.3
West Virginia	11.4	16.2	19.7	26.3	15.6
Pennsylvania	36.8	31.7	27.2	26.3	32.9
Ohio	8.1	7.6	6.0	3.9	7.6
Kentucky	2.2	5.7	8.9	11.9	5.6
All other States	28.7	34.4	22.2	20.6	25.0

TABLE 10A—PRODUCTION OF COAL IN THE UNITED STATES FROM 1930 TO 1954, BY DECADES

State	Total production from earliest records to end of 1930	Production 1931-1940 ten years	Production 1941-1950 ten years	Production 1951-1954 three years	Grand total tons produced
Alabama	557,033,923	109,365,000	170,301,000	37,100,000	873,799,923
Arkansas	64,150,108	11,997,000	16,398,000	2,735,000	95,280,108
Colorado	348,704,741	60,729,000	65,946,000	11,326,000	486,705,741
Georgia	10,746,636	*123,000	*253,000	*	11,122,636
Illinois	2,114,882,412	450,787,798	648,475,572	146,588,381	3,360,734,163
Indiana	613,575,358	158,086,000	233,584,000	51,461,000	1,056,706,358
Iowa	283,679,069	34,342,000	21,603,000	4,161,000	343,785,069
Kansas	211,874,971	26,097,000	30,204,000	5,490,000	273,665,971
Kentucky	924,710,600	415,501,000	694,057,000	204,821,000	2,239,089,600
Maryland	228,423,114	15,751,000	16,299,000	1,742,000	262,215,114
Michigan	40,265,869	5,011,000	1,107,000	7,000	46,390,869
Missouri	186,089,311	36,003,000	38,339,000	8,534,000	268,965,311
Montana (bituminous and lignite)	97,134,526	26,336,000	36,312,000	6,280,000	166,062,526
New Mexico	94,767,769	13,582,000	13,817,000	2,123,000	124,289,769
North Dakota (lignite)	24,606,130	19,557,000	26,738,000	8,978,000	79,879,130
Ohio	1,190,506,477	206,693,000	338,244,000	107,608,000	1,843,051,477
Oklahoma	119,052,080	14,057,000	28,345,000	94,260,000	255,714,080
Pennsylvania (bituminous)	5,234,335,241	940,743,000	1,296,583,000	291,605,000	7,763,266,241
Tennessee	219,568,464	46,294,000	63,520,000	16,326,000	345,708,464
Texas (bituminous and lignite)	51,917,668	7,771,000	1,240,000		60,928,668
Utah	110,316,521	31,095,000	63,124,000	18,776,000	223,311,521
Virginia	279,003,306	111,233,000	181,554,000	62,434,000	634,224,306
Washington	113,524,327	16,494,000	13,305,000	2,396,000	145,719,327
West Virginia	2,535,019,855	1,043,399,000	1,527,440,000	437,023,000	5,542,881,855
Wyoming	241,233,790	50,807,000	77,768,000	17,781,000	387,589,790
Other States	47,318,098	2,074,000	3,996,000	2,218,000	55,606,098
Total bituminous	15,942,440,364	3,853,927,798	5,608,552,572	1,541,773,381	26,946,694,115
Per cent of bituminous coal contributed by:—					
Illinois	13.3	11.7	11.6	9.5	12.5
West Virginia	15.9	27.1	27.2	28.3	20.6
Pennsylvania	32.8	24.4	23.1	18.9	28.8
Ohio	7.5	5.3	6.0	7.0	6.8
Kentucky	5.8	10.8	12.4	13.3	8.3
All Other States	24.7	20.7	19.7	23.0	23.0

* Included with "Other States."

In the two tables that follow, the states are arranged in the order of their rank in each period.

TABLE 11—RANK OF STATES IN ORDER OF PRODUCTION
Earliest Period to 1930

Rank	Rank of States from earliest record to 1915	Rank of States second period 1916-1920	Rank of States third period 1921-1925	Rank of States fourth period 1926-1929	Rank of States by total production
1	Pennsylvania	Pennsylvania	Pennsylvania	Pennsylvania	Pennsylvania
2	Illinois	West Virginia	West Virginia	West Virginia	West Virginia
3	West Virginia	Illinois	Illinois	Kentucky	Illinois
4	Ohio	Ohio	Kentucky	Illinois	Ohio
5	Alabama	Kentucky	Ohio	Ohio	Kentucky
6	Indiana	Indiana	Indiana	Alabama	Indiana
7	Kentucky	Alabama	Alabama	Indiana	Alabama
8	Iowa	Colorado	Virginia	Virginia	Colorado
9	Colorado	Virginia	Colorado	Colorado	Iowa
10	Maryland	Wyoming	Wyoming	Wyoming	Virginia
11	Kansas	Iowa	Tennessee	Tennessee	Wyoming
12	Tennessee	Kansas	Iowa	Utah	Maryland
13	Wyoming	Tennessee	Utah	Iowa	Tennessee
14	Missouri	Missouri	Kansas	Oklahoma	Kansas
15	Virginia	Utah	Missouri	Missouri	Missouri
16	Washington	Oklahoma	Montana	Kansas	Oklahoma
17	Oklahoma	Maryland	New Mexico	Montana	Washington
18	New Mexico	Montana	Oklahoma	Maryland	Utah
19	Montana	New Mexico	Washington	New Mexico	Montana
20	Utah	Washington	Maryland	Washington	New Mexico
21	Arkansas	Texas	Arkansas	North Dakota	Arkansas
22	Texas	Arkansas	North Dakota	Arkansas	Texas
23	Michigan	Michigan	Texas	Texas	Michigan
24	Georgia	Georgia	Michigan	Michigan	North Dakota
25	North Dakota	North Dakota	Georgia	Georgia	Georgia

TABLE 11-A—RANK OF STATES IN ORDER OF PRODUCTION
Earliest Record to 1954

Rank	Rank of States from earliest record to 1930	Rank of States second period 1931-1940	Rank of States third period 1941-1950	Rank of States fourth period 1951-1954	Rank of States by total production
1	Pennsylvania	West Virginia	West Virginia	West Virginia	Pennsylvania
2	West Virginia	Pennsylvania	Pennsylvania	Pennsylvania	West Virginia
3	Illinois	Illinois	Kentucky	Kentucky	Illinois
4	Ohio	Kentucky	Illinois	Illinois	Kentucky
5	Kentucky	Ohio	Ohio	Ohio	Ohio
6	Indiana	Indiana	Indiana	Virginia	Indiana
7	Alabama	Virginia	Virginia	Indiana	Alabama
8	Colorado	Alabama	Alabama	Alabama	Virginia
9	Iowa	Colorado	Wyoming	Utah	Colorado
10	Virginia	Wyoming	Colorado	Wyoming	Wyoming
11	Wyoming	Tennessee	Tennessee	Tennessee	Tennessee
12	Maryland	Missouri	Utah	Colorado	Iowa
13	Tennessee	Iowa	Missouri	North Dakota	Kansas
14	Kansas	Utah	Montana	Missouri	Missouri
15	Missouri	Montana	Kansas	Oklahoma	Maryland
16	Oklahoma	Kansas	Oklahoma	Montana	Oklahoma
17	Washington	North Dakota	North Dakota	Kansas	Utah
18	Utah	Washington	Iowa	Iowa	Montana
19	Montana	Maryland	Arkansas	Arkansas	Washington
20	New Mexico	Oklahoma	Maryland	Washington	New Mexico
21	Arkansas	New Mexico	New Mexico	New Mexico	Arkansas
22	Texas	Arkansas	Washington	Maryland	North Dakota
23	Michigan	Texas	Texas	Michigan	Texas
24	North Dakota	Michigan	Michigan	Georgia	Michigan
25	Georgia	Georgia	Georgia	Texas*	Georgia

* No production during 1951-1954 period.

DISPOSITION OF THE PRODUCT OF ILLINOIS MINES

Prior to 1897, no disposition of the output of mines is shown but, beginning with 1898, this has been made a feature of the annual reports. As quite evident, the development of mines and the building of railroads are, to a very large extent, interdependent. This is further evident by the following table showing the high tonnage by amount and per cent handled by railroads. The term "handled by railroads" includes the tons loaded on cars at the mines for shipment to market, the amount sold direct to railroad companies, and the number of tons supplied to locomotives at the mine chutes. "Disposed of otherwise" is the amount sold to local trade, used at the mine for generating steam and other necessities, and the waste in preparing for market.

TABLE 12—DISPOSITION OF OUTPUT OF ALL MINES, SHIPPING AND LOCAL

Year	Total output tons—all mines	Tons handled by railroads	Tons disposed of otherwise	Per cent of output handled by railroads
1898	18,599,299	15,596,888	3,002,411	83.8
1899	23,434,445	20,019,147	3,415,298	85.4
1900	25,153,929	21,893,885	3,260,044	87.0
1901	26,685,319	23,547,911	3,137,408	88.3
1902	30,021,300	26,648,826	3,372,474	88.8
1903	34,955,400	31,201,620	3,753,780	89.3
1904	37,077,897	33,001,359	4,076,538	89.0
1905	37,183,374	32,845,310	4,338,064	88.4
1906	38,317,581	34,131,454	4,186,127	89.1
1907	47,798,621	43,133,241	4,665,380	90.2
1908	49,272,436	45,026,922	4,245,514	91.4
1909	49,163,710	44,918,206	4,245,504	91.4
1910	48,717,853	43,893,232	4,824,621	90.1
1911	50,165,099	45,456,193	4,708,906	90.6
1912	57,514,240	52,427,236	5,087,004	91.2
1913	61,846,204	56,876,944	4,969,260	92.0
1914	60,715,795	55,844,649	4,871,146	92.0
1915	57,601,694	53,167,494	4,434,200	92.3
1916	63,673,530	59,220,823	4,452,707	93.0
1917	78,983,517	73,550,125	5,433,392	93.1
1918	89,979,465	83,710,214	6,269,251	93.0
1919	75,099,784	68,988,042	6,111,742	91.9
1920	73,920,653	67,817,622	6,103,031	91.7
1921	80,121,948	73,572,012	6,549,936	91.8
1922	63,276,827	57,224,703	6,052,124	90.8
1923	75,514,095	68,970,913	6,543,182	91.3
1924	72,308,665	66,644,747	5,663,918	92.2
1925*	103,186,166	95,610,713	7,575,453	92.7
1926	69,813,255	64,961,964	4,851,291	93.0
1927	46,949,700	42,472,805	4,476,895	90.5
1928	56,211,082	51,524,485	4,686,597	91.7
1929	61,127,759	55,761,398	5,366,361	91.2
1930	54,035,116	48,682,938	5,352,178	90.0
1931	45,152,623	39,940,793	5,211,830	88.5
1932	34,120,786	28,519,261	5,601,525	83.6
1933	38,320,125	31,636,128	6,683,997	82.6
1934	41,724,078	34,730,011	6,994,067	83.2
1935	45,013,278	36,844,180	8,169,098	81.9
1936	51,475,899	41,664,226	9,811,673	80.9
1937	52,432,255	42,319,509	10,112,746	80.7
1938	42,387,368	33,476,344	8,911,024	79.0
1939	47,627,454	38,263,838	9,363,616	80.3
1940	51,871,704	41,255,080	10,616,624	79.5
1941	55,365,835	45,833,284	9,532,551	82.8
1942	65,746,204	55,337,605	10,408,599	84.2
1943	73,344,761	62,812,065	10,532,696	85.6
1944	77,400,031	68,216,967	9,183,064	88.1
1945	73,446,930	64,303,731	9,143,199	87.6
1946	63,767,082	55,233,957	8,533,125	86.6
1947	68,325,241	58,274,441	10,050,800	88.5
1948	66,166,805	55,920,507	10,246,298	84.5
1949	47,630,380	39,496,514	8,133,866	82.9
1950	57,282,303	47,845,074	9,437,229	83.5
1951	54,869,679	46,351,746	8,517,933	84.5
1952	45,752,588	38,392,383	7,360,205	83.9
1953	45,966,114	38,544,560	7,421,554	83.9
Total	3,063,615,281	2,703,556,225	360,059,056	88.2

NOTE—Local Mines furnished 620,801 tons to locomotives.
* From July 1, 1924 to December 31, 1925.

TONNAGE BY COUNTIES

The disposition of the tonnage of shipping mines has been made a matter of record by counties from the year 1902. The following two tables have been made to show the total tons mined, the tons shipped to market, the tons sold to railroad companies, the tons supplied to locomotives at mine chutes, the total tons handled by railroads and the per cent of the total output so handled.

TABLE 13—SHIPPING MINES—TONS PRODUCED BY COUNTIES, TONS DISPOSED OF TO RAILROADS AND THE PERCENTAGE OF THE TOTAL OUTPUT HANDLED BY RAILROADS—1902-1930

County	Total tons produced	Tons shipped to market	Tons sold to railroad companies	Tons supplied to locomotives	Total tons handled by railroads	Per cent of total product handled by railroads
Bond	5,078,307	3,887,447	789,160	463	4,677,070	92.1
Bureau	31,525,749	21,819,621	6,700,965	629,464	29,150,050	92.5
Christian	68,559,290	48,946,481	13,021,520	1,613,279	63,581,280	92.7
Clinton	28,238,918	22,108,369	2,912,464	1,265,340	26,286,173	93.1
Franklin	224,500,286	176,292,924	37,785,853	26,772	214,105,549	95.0
Fulton	53,186,259	38,855,174	12,046,827	475,923	51,377,924	96.6
Gallatin	2,054,462	1,764,131	8,601	61,245	1,833,977	89.3
Grundy	18,307,165	15,699,831	1,219,108	2,995	16,921,934	92.4
Henry	1,709,099	1,234,430	202,422	200	1,437,052	84.1
Jackson	28,434,146	23,458,645	2,047,504	865,783	26,371,932	92.6
LaSalle	27,779,974	20,235,133	1,581,250	1,406,950	23,223,333	83.6
Livingston	2,643,384	1,973,641	899	272,333	2,246,873	85.0
Logan	10,067,924	6,678,967	455,116	641,233	7,775,316	77.2
Macon	5,899,553	1,849,795	3,333	22,666	1,875,794	31.8
Macoupin	144,047,098	67,742,276	68,389,462	1,156,344	137,288,082	95.3
Madison	98,816,809	81,120,224	12,068,418	360,123	93,548,765	94.7
Marion	25,539,830	18,537,742	3,185,889	1,662,541	23,386,172	91.6
Marshall	8,826,440	5,414,810	1,547,242	954,171	7,916,223	89.7
McLean	2,112,523	432,806	20,000	416,311	869,117	41.1
Menard	5,371,772	4,424,539	309,666	44,665	4,778,870	89.0
Mercer	7,901,164	6,084,049	1,390,509	22,704	7,497,262	94.9
Montgomery	58,863,634	40,352,606	15,758,515	92,515	56,203,636	95.5
Moultrie	2,032,236	1,439,868	371,470	------------	1,811,338	89.1
Peoria	28,616,883	19,794,423	8,021,604	119,254	27,935,281	97.6
Perry	58,059,844	44,938,295	8,058,447	2,359,202	55,355,944	95.3
Putnam	9,584,411	5,669,478	3.332,134	60,265	9,061,877	94.5
Randolph	26,901,868	16,656,557	9,208,235	21,200	25,885,992	96.2
Saline	99,057,944	82,149,564	12,955,636	328,506	95,433,706	96.3
Sangamon	155,950,605	112,145,517	32,103,778	1,195,880	145,445,175	93.3
Shelby	2,866,897	2,121,985	26,558	94,602	2,243,145	78.2
St. Clair	119,177,899	96,566,819	12,688,571	2,344,576	111,599,966	93.6
Tazewell	10,218,324	4,413,892	4,417,211	91,219	8,922,322	87.3
Vermilion	83,229,073	63,346,709	16,733,212	332,493	80,412,414	96.6
Washington	9,840,912	3,692,908	4,620,082	625,909	8,938,899	90.8
White	1,461,776	1,004,684	147,963	67,342	1,219,989	83.5
Will	3,873,048	3,285,447	299,915	------------	3,585,362	92.6
Williamson	200,639,733	147,014,274	43,831,888	173,337	191,019,499	95.2
Woodford	3,844,276	2,520,784	458,220	166,078	3,145,082	81.8
Other counties*	2,668,665	1,583,807	641,896	67,509	2,293,212	85.9
Total	1,677,488,180	1,217,258,652	339,361,543	20,041,392	1,576,661,587	94.0

* Edgar, Hancock, Jefferson, Kankakee, Knox, McDonough, Rock Island, Schuyler and Stark.

TABLE 13-A—SHIPPING MINES—TONS PRODUCED BY COUNTIES, TONS DISPOSED OF TO RAILROADS AND THE PERCENTAGE OF THE TOTAL OUTPUT HANDLED BY RAILROADS—1931-1954

County	Total tons produced	Tons shipped to market	Tons sold to railroad companies	Tons supplied to locomotives	Total tons handled by railroads	Per cent of total product handled by railroads
Bond	830,448	368,348	191,505	--------------	559,853	67.4
Bureau	5,473,295	3,759,984	578,666	--------------	4,338,650	79.3
Christian	127,479,318	113,541,126	7,448,560	170,260	121,159,946	95.0
Clinton	5,429,979	2,142,822	573,309	6,741	2,722,872	50.1
Franklin	238,607,681	163,693,532	58,358,944	1,136	222,053,612	93.0
Fulton	89,807,705	63,139,914	17,638,206	8,050	80,786,170	90.0
Gallatin	580,453	167,671	47,271	--------------	214,942	37.0
Grundy	605,609	390,555	463	--------------	391,018	64.6
Henry	10,446,136	7,373,049	1,714,986	8,578	9,096,613	87.1
Jackson	38,931,956	28,005,283	9,163,852	3,868	37,173,003	95.5
LaSalle	4,483,908	1,438,334	12,254	--------------	1,450,588	32.4
Logan	237,145	63,918	7,058	31,249	102,225	43.1
Macon	1,246,672	178,314	--------------	--------------	178,314	14.3
Macoupin	86,366,393	15,693,991	63,783,183	91,347	79,568,521	92.1
Madison	33,441,643	15,996,641	5,308,343	--------------	21,304,984	63.7
Marion	5,761,657	3,120,347	1,053,656	--------------	4,174,003	72.4
Montgomery	19,615,447	12,009,448	5,025,055	3,688	17,038,191	86.9
Peoria	13,704,152	2,400,384	10,314,479	--------------	12,714,863	92.8
Perry	87,908,248	59,482,060	23,408,702	238,999	83,129,761	94.6
Putnam	459,009	284,424	8,738	5,008	298,170	65.0
Randolph	33,882,261	21,277,636	10,135,375	--------------	31,413,011	92.7
Saline	82,683,880	65,211,315	14,101,768	428	79,313,511	95.9
Sangamon	44,526,075	25,684,301	10,193,190	16,124	35,893,615	80.6
Shelby	78,381	7,958	--------------	--------------	7,958	10.2
St. Clair	49,072,283	21,428,691	9,520,194	231,630	31,180,515	64.9
Tazewell	1,478,281	637,035	258,647	--------------	895,682	60.6
Vermilion	33,720,172	18,930,707	11,918,374	26.435	30,875,516	91.6
Washington	6,523,923	2,584,340	2,632,010	222,134	5,438,484	83.4
White	213,495	93,830	--------------	--------------	93,830	43.9
Will	26,436,402	16,074,909	5,871,223	--------------	21,946,132	83.0
Williamson	74,074,262	51,897,193	19,182,613	58,360	71,138,166	96.0
Woodford	895,351	241,642	1,368	--------------	243,010	27.1
Other counties*	41,083,860	29,303,218	9,003,927	9,330	38,316,475	93.3
Total	1,165,085,480	746,622,920	297,455,919	1,133,365	1,045,212,204	89.7

* Douglas, Edgar, Hancock, Jefferson, Kankakee, Knox and Schuyler.

RAILROADS

The railroads which have played such a prominent part in developing the mining industry of the State are listed below.

Beginning with 1902, the record of each road has been kept through the years. A few of these roads have changed their corporate names, but by tracing them carefully it is believed that the tonnage accredited to them is substantially correct.

In the list following, no road is listed by name that handled less than 1,000,000 tons during the years 1902-1930.

The names of the railroads are listed in the order of total tons handled.

A similar table as a comparison is shown on the opposite page, "Railroads Listed by Name from the Year 1931 to 1954, Arranged According to Tonnage".

TABLE 14 — RAILROADS WHICH HAVE HANDLED THE COAL PRODUCED IN SHIPPING MINES ARRANGED BY RANK IN THE ORDER OF TONS HANDLED, AND THE PERCENT OF THE WHOLE THAT WENT TO EACH ROAD—1902-1930

Rank	Railroad	Total tons handled by railroad	Tons shipped to market	Tons sold to railroad companies	Tons furnished to locomotives at mines	Per cent handled by each road
1	Illinois Central	303,279,332	244,140,798	50,953,847	8,184,687	19.24
2	Chicago, Burlington & Quincy	242,898,857	192,782,122	49,632,512	484,223	15.41
3	Clc-Cin., Chicago & St. L	142,118,873	114,198,107	27,029,567	891,199	9.01
4	Chicago & Eastern Illinois	117,737,479	105,098,124	12,478,315	161,040	7.47
5	Chicago & Alton	85,194,078	67,975,199	16,879,053	339,826	5.40
6	Wabash	84,660,900	58,664,006	24,828,101	1,168,793	5.37
7	Missouri-Pacific	81,778,695	57,487,734	24,076,934	214,027	5.19
8	Chicago & Northwestern	73,859,985	20,793,756	52,766,150	300,079	4.69
9	Baltimore & Ohio	39,768,015	31,849,587	6,239,387	1,679,041	2.52
10	Illinois Terminal	38,410,470	35,011,703	3,280,177	118,590	2.44
11	Litchfield & Madison	36,970,183	36,273,443	570,901	125,839	2.34
12	Chicago & Illinois Midland	28,721,340	26,461,980	2,080,078	179,282	1.82
13	Southern	26,125,434	21,798,039	4,223,582	103,819	1.65
14	Elgin, Joliet & Eastern	25,349,447	21,467,535	3,878,714	3,198	1.61
15	Pennsylvania Lines	25,104,740	21,582,938	3,454,357	67,445	1.59
16	Mobile & Ohio	22,519,473	14,104,065	8,045,416	369,992	1.43
17	Louisville & Nashville	21,243,545	17,529,530	1,856,968	1,857,047	1.35
18	St. Louis & O'Fallon	20,109,130	17,755,573	2,224,741	128,816	1.28
19	Chicago, Milwaukee & St. Paul	19,631,637	12,622,687	6,623,802	385,148	1.25
20	Chi.-Springfield & St. Louis	17,903,203	16,226,424	1,318,589	358,190	1.14
21	Minneapolis & St. Louis	16,581,669	12,487,634	3,898,130	195,905	1.05
22	Toledo, St. Louis & Western	12,607,334	8,670,068	3,926,748	10,518	.80
23	Atchison, Topeka & Santa Fe	12,397,243	6,875,823	4,470,590	1,050,830	.79
24	Chicago, Rock Island & Pacific	11,300,874	8,818,882	1,635,329	846,663	.70
25	Peoria & Pekin Union	10,649,070	6,010.261	4,551,138	87,671	.68
26	East St. Louis & Suburban	8,420,844	7,338,617	1,060,341	21,886	.53
27	Toledo, Peoria & Western	6,777,692	5,757,553	539,043	481,096	.43
28	St. Louis & Belleville	6,673,143	6,122,911	549,150	1,082	.42
29	Missouri & Illinois	6,315,134	4,582,836	1,615,451	116,847	.40
30	Peoria, Hanna City & Western	5,790,767	1,414,392	4,366,416	9,959	.37
31	Marion & Eastern	4,437,682	3,718,175	707,575	11,932	.28
32	New York Central	2,953,100	1,815,204	1,106,137	31,759	.19
33	Chicago & Great Western	2,948,461	162,927	2,785,534	------------	.19
34	Rock Island & Southern	2,415,041	1,851,874	541,793	21,374	.15
35	Peoria & Eastern	1,170,752	495,333	648,573	26,846	.07
36	Other roads, including boats	11,837,965	7,312,812	4,518,404	6,749	.75
	Total	1,576,661,587	1,217,258,652	339,361,543	20,041,392	100.00

TABLE 14-A—RAILROADS WHICH HAVE HANDLED THE COAL PRODUCED IN SHIPPING MINES ARRANGED BY RANK IN THE ORDER OF TONS HANDLED, AND THE PERCENT OF THE WHOLE THAT WENT TO EACH ROAD—1931-1954

Rank	Railroad	Total tons handled by railroad	Tons shipped to market	Tons sold to railroad companies	Tons furnished to locomotives at mines	Per cent handled by each road
1	Illinois Central	231,158,469	186,412,915	44,026,921	718,633	22.00
2	Chicago, Burlington & Quincy	173,903,574	130,419,751	43,420,273	63,550	16.56
3	Chicago & Illinois Midland	115,193,900	111,610,030	3,583,870		10.97
4	Missouri-Pacific	110,533,118	75,457,604	35,061,123	14,461	10.52
5	Chicago & Northwestern	59,681,797	6,338,365	53,343,432		5.68
6	Cle.-Cin., Chicago & St. Louis	55,172,087	42,097,638	13,074,449		5.25
7	New York Central	42,967,514	33,059,201	9,907,885	428	4.09
8	Wabash	31,958,457	14,222,614	17,735,843		3.04
9	Chicago, Rock Island & Pacific	26,553,540	12,189,984	14,364,978	8,578	2.53
10	Chicago & Eastern Illinois	21,214,258	16,697,994	4,509,762	6,502	2.02
11	Minneapolis & St. Louis	20,035,752	14,568,706	5,467,046		1.91
12	Chicago & Alton	15,751,004	10,473,677	5,274,674	2,653	1.50
13	Gulf, Mobile & Ohio	15,082,337	11,873,276	3,209,061		1.44
14	Atchison, Topeka & Santa Fe	14,783,002	8,079,475	6,703,527		1.41
15	Elgin, Joliet & Eastern	10,951,626	5,389,249	5,538,756	23,621	1.04
16	Illinois Terminal	10,408,047	9,515,777	892,270		.99
17	Litchfield & Madison	9,922,913	9,742,471	180,442		.95
18	St. Louis & O'Fallon	7,706,269	4,618,500	3,063,403	24,366	.73
19	Pennsylvania	6,362,440	3,971,683	2,390,757		.61
20	Chicago & Great Western	5,827,636	120,767	5,706,869		.55
21	Baltimore & Ohio	5,478,753	3,764,558	1,708,454	6,741	.52
22	Missouri & Illinois	3,192,340	2,284,616	907,724		.30
23	Mobile & Ohio	2,598,294	677,690	1,920,604		.25
24	Chi.-Springfield & St. Louis	2,491,537	1,298,771	1,192,766		.24
25	Southern	1,710,641	1,417,676	292,965		.16
26	Chicago, Milwaukee & St. Paul	1,541,461	162,269	1,379,192		.15
27	Peoria & Eastern	1,382,182	857,094	525,088		.13
28	Peoria & Pekin Union	1,161,737	623,961	537,776		.11
29	Other Roads	40,486,449	28,676,608	11,546,009	263,832	3.85
30	Barge	5,302,990	5,302,990			.50
	Total	1,050,515,194	751,925,910	297,455,919	1,133,365	100.00

LOSS OF TONNAGE TO RAILROADS—1944-1954

In very recent years most of the State's lost tonnage has been due to railroads changing to Diesel locomotives. This has materially reduced tons sold to railroad companies. This reduction is shown by totals in the following 10-year table.

Year	Tons Sold to Railroads
1944	18,572,758
1945	20,618,645
1946	16,774,701
1947	16,513,210
1948	14,178,983
1949	8,807,254
1950	8,769,446
1951	8,144,099
1952	5,683,489
1953	3,825,773

Chapter II

Improvements, employees, machine mining, motor haulage, mechanical loading, explosives used for blasting coal, fatalities, change in corporate names, tracing of the shipping mines from dates opened, data concerning the shipping mines at the close of 1953.

IMPROVEMENTS

The first reference we find in regard to improvements of the mines is in the 1883 Coal Report and pertains to ventilation and escapement shafts and states that a marked improvement had been made in both. During the year 1883 forty-two mines were provided with escapement shafts and many more were reported as being in process of construction. The report further says:

> "The disposition to comply with the law in this and all respects is general among the larger proprietors."

The foremost requirement of the mining law at that time was in respect to ventilation and means of escape in case of danger. To assure this, the law specified that all mines where more than ten men were employed should be provided with at least two places of ingress and egress, and that a given volume of fresh air must be constantly distributed throughout the workings.

State inspectors were charged with the duty of enforcing this law and only in a few instances were they compelled to resort to the courts.

By the close of 1886, 310 mines had been provided with escapement shafts and ventilating fans had been erected at 152. These mines represented the largest producers in the State. Other mines were provided with other and different systems of egress and ventilation, so that practically all the mines of the State were in conformity to the requirements of the law. The law also required suitable means of signaling between the bottom and the top, safety catches on cages, guides, brakes on drums, etc., which requirements were generally complied with.

ELECTRICITY AND COMMUNICATIONS

Since the turn of the century, there has been marked developments in electric cables for underground and strip mining. The earlier reels for trailing cables underground were mechanically driven. For haulage, they were single conductor, and for cutting machines, two-conductor cables. The materials used were unsatisfactory as to strength, braiding, water resisting and shock hazard. Lead covered cables were often used in wet locations. Modern cables are a great improvement, employing rubber compounds, stronger materials, improved braiding, automatic electric drives, water resisting, flexibility, and other important qualities.

Development in the conversion of electric power has been very rapid. In the early days, electric power circuits underground were quite simple. With increase in tonnage, longer distances, larger equipment, and other types of progress, it became necessary to transmit power at higher voltage and then convert to some lower voltage near the load centers. Two general methods have evolved, surface substations with bore holes and substations underground. Usually power is converted from high voltage AC to low voltage DC by motor generator sets, or, more recently, rectifier units. In mines where AC is used to power underground equipment, transformer substations are used.

In this last half century, telephones have come into the mines. very slowly at first, of wood material and bare wires, but rapidly increasing in use, upon development of metal boxes and strong insulated wire. They are now standard equipment in all mines. In very recent years, trolley radio phones for locomotives and loading machine crews are available for radio communication.

SCREENS

The first account we have of the use of screens is given in 1886 when it was reported that they were used at 218 mines and that 80% of the product was screened before going to market. It is stated that, "much the largest number of screens have a space between the bars of seven-eighths of an inch, with an average area of about sixty square feet. This was regarded as a standard screen and was used by all of the larger companies."

EMPLOYEES

Prior to 1897 the only classification of the employees given was "underground" and "on surface", but, subsequently, they have been classed as "miners", "all others underground" and "number on surface". The two tables following are made to show, from 1882 to 1897, the first classification and from 1897 to the present time (1954) the second classification:

TABLE 15—CLASSIFICATION OF EMPLOYEES

Year	Number inside	Number outside	Total
1882	17,415	2,875	20,290
1883	21,839	2,100	23,939
1884	20,610	1,965	22,575
1885	20,772	5,174	25,946
1886	20,973	4,873	25,846
1887	21,158	5,646	26,804
1888	23,648	5,762	29,410
1889	23,583	6,493	30,076
1890	20,196	7,878	28,074
1891	26,059	6,892	32,951
1892	25,321	8,312	33,633
1893	31,584	3,806	35,390
1894	32,046	6,431	38,477
1895	34,649	3,988	38,630
1896	33,222	3,810	37,032

TABLE 16—CLASSIFICATION OF EMPLOYEES, 1897-1954

Year	Underground			On surface	Total employees
	Miners	Others	Total		
1897	25,498	4,750	30,248	3,500	33,788
1898	26,520	5,282	31,601	3,424	35,026
1899	26,449	6,750	33,199	3,702	36,901
1900	27,875	7,328	35,203	4,181	39,384
1901	30,829	8,921	39,750	4,393	44,143
1902	32,875	8,670	41,545	4,458	46,003
1903	34,904	9,802	44,706	5,108	49,814
1904	37,987	11,374	49,361	5,413	54,774
1905	41,202	12,234	53,436	5,794	59,230
1906	42,920	13,104	56,024	6,259	62,283
1907	45,498	14,621	60,119	6,595	66,714
1908	48,931	15,493	64,424	6,417	70,841
1909	50,834	15,540	66,374	6,359	72,733
1910	39,069	29,291	68,360	6,274	74,634
1911	39,912	31,061	70,973	6,437	77,410
1912	39,149	33,213	72,362	7,049	79,411
1913	35,401	37,092	72,493	7,004	79,497
1914	32,262	40,773	73,035	7,000	80,035
1915	29,560	39,812	69,372	6,235	75,607
1916	27,272	42,154	69,426	6,493	75,919
1917	27,114	46,023	73,137	7,756	80,893
1918	54,425	26,459	80,884	10,488	91,372
1919	53,792	26,725	80,517	10,380	90,897
1920	50,554	27,139	77,693	10,499	88,192
1921	55,660	29,242	84,902	10,861	95,763
1922	59,381	28,309	87,690	10,400	98,090
1923	62,811	29,998	92,809	10,757	103,566
1924	61,500	28,002	89,502	10,263	99,765
1925	52,057	21,472	73,529	8,155	81,684
1926	48,210	21,133	69,343	8,389	77,732
1927	50,266	20,553	70,819	7,753	78,572
1928	40,070	18,305	58,375	7,133	65,508
1929	32,862	18,813	51,675	6,921	58,596
1930	25,678	18,646	44,324	6,891	51,215
1931	22,666	17,505	40,171	6,853	47,024
1932	19,815	17,585	37,400	6,678	44,078
1933	17,208	16,385	33,593	7,067	40,660
1934	17,007	16,489	33,496	7,447	40,943
1935	15,323	17,554	32,877	7,619	40,496
1936	13,257	18,254	31,511	8,500	40,011
1937	11,543	18,173	29,716	8,837	38,553
1938	8,839	17,969	26,808	8,439	35,247
1939	6,307	18,374	24,681	8,353	33,034
1940	5,138	15,830	20,968	8,318	29,286
1941	4,834	17,199	22,033	8,240	30,273
1942	4,098	17,859	21,957	8,065	30,022
1943	3,618	16,785	20,403	8,350	28,753
1944	3,412	17,093	20,505	8,505	29,010
1945	2,898	16,440	19,338	8,860	28,198
1946	2,693	17,862	20,555	9,190	29,745
1947	2,277	17,736	20,013	9,581	29,594
1948	1,631	18,514	20,145	9,658	29,803
1949	1,198	17,641	18,839	9,681	28,520
1950	999	17,832	18,811	9,415	28,246
1951	947	17,198	18,145	8,791	26,936
1952	605	13,680	14,285	7,389	21,674
1953	372	10,581	10,953	6,248	17,201

MINING MACHINES

Coal cutting machines are mentioned in the Biennial Report of the Bureau of Labor, 1882, in these words:

> "Where the coal cutting machines are in use, the machine is placed in charge of a skilled operator, who employs one assistant, and is paid for cutting by the yard; while others 'shoot' and load the coal, and are paid by the ton."

Mining machines are mentioned in the report to the Bureau by the inspectors of six Counties, viz: La Salle, Mercer, St. Clair, Vermilion, Will and Williamson. We here quote the words of each inspector in regard to these machines:

La Salle County, Alexander Ronald, Inspector:

> "Coal cutting machines have been introduced into some of the larger mines to undermine the coal. * * * The operators regard them as a financial success. The miners differ in opinion about the machines, the more intelligent holding that it is only a question of time when machinery will have to do a large part of the work now being done by hand, and that it will be better for the men that it should; while others foresee only the ruin of the miners, and the reduction of wages to starvation prices."

Mercer County, William McLaughlin, Inspector:

> "At present, coal cutting machines are being used which are reported as giving entire satisfaction both to the company and the men."

St. Clair County, James Word, Inspector:

> "The use of machines in the mines is considered dangerous on account of the noise they make, which prevents the men from hearing any movement on the roof, and anticipating a fall; also that men object to them for the reason that when business is light, operators keep the machines running and allow the men to remain idle."

Vermilion County, Isaac Bracewell, Inspector:

> "Mining machines have been tried in this field and abandoned."

Will County, Richard Moffatt, Inspector:

> "They (cutting machines) are employed here in narrow work, and both the companies and the men are satisfied with results. They were previously employed in this district for doing room

> work, but the company, which used them in rooms, had them withdrawn some time ago."

Williamson County, James Thompson, Inspector:

> "No use has been made here of mining machines."

No mention is made of the number of machines used nor the tonnage undercut, neither is the subject of mining machines referred to again until the report of 1886, where it is stated that 235 were used.

Beginning with 1888, the Annual Coal Reports show the number of mines using undercutting machines, the number used and the tonnage undercut, which is summarized and presented in the following table, by years, and also shows the percentage of mines using, and product undercut by machines.

The foregoing early reports from the State Mine Inspectors were upon the compressed air type or the electric chain breast type machines. As indicated, there was considerable labor antagonism to the "Iron Man". On more than one occasion, the new mining machine's arrival at a mine caused work stoppage. To continue mine operation, its destination on some occasions would be the store room where it soon became obsolete because of rapid progress in mining machines.

The electric machines were soon made self propelling. Short wall mining machines were a big step in advancement over the breast machines. The long wall system of continuous undercutting was copied but for only the width of a working place. The short wall is unloaded from its truck and, upon sumping at and parallel to a coal rib the depth of its cutter arm, it is then arranged to propel itself across the working face, undermining laterally until it reaches and is parallel to the opposite coal rib. It is then re-arranged to load itself on its track-travelling truck and propel itself. Further development has been the use of "Caterpillars" and later rubber tires.

Undercutting with track-mounted machines has been developed and is in use. Such machines are usually termed arc walls since, in their staple position on the track and against the coal face, the cutter bar as it sweeps from rib to rib makes a circular cut from its sumped-in position and location.

Rubber tire mining machines (sometimes "Cartepillars" are used) are especially adapted for trackless mining. As with arc walls, the cutter bar and chassis, or truck, are one. However, there is greater flexibility in truck position and movement than in track mounting.

There has been great advancement in cutter bits in the last quarter century and especially since the development of tungsten carbide.

TABLE 17—NUMBER OF SHIPPING MINES USING MACHINES, NUMBER USED, TONS UNDERCUT, PERCENTAGES, 1888-1954

Year	Number of mines using machines	Number used	Tons undercut	Per cent of	
				Mines using	Tons cut
1888	38	272	2,243,216	12.5	18.9
1889	35	235	2,246,713	10.5	20.2
1890	34	266	2,881,983	10.4	22.8
1891	34	241	2,423,080	10.4	18.7
1892	41	300	3,866,289	13.3	22.7
1893	41	310	4,595,130	13.2	23.0
1894	40	296	3,412,293	12.5	24.6
1895	40	322	3,531,436	12.5	25.1
1896	42	307	3,871,410	12.7	19.4
1897	43	320	3,946,257	13.9	19.6
1898	55	392	3,415,635	16.7	18.4
1899	64	440	6,085,312	19.8	26.0
1900	67	436	5,583,594	20.7	22.2
1901	63	464	5,774,639	19.0	21.7
1902	64	464	6,497,123	19.3	21.6
1903	68	522	7,646,777	19.3	21.9
1904	67	623	7,140,427	17.6	19.3
1905	76	784	8,202,066	19.1	22.6
1906	85	962	9,563,230	20.3	24.9
1907	101	1,105	14,490,454	24.6	31.2
1908	105	1,106	15,210,423	25.8	31.8
1909	107	1,246	16,407,692	27.9	34.2
1910	114	1,289	18,176,254	29.2	38.5
1911	126	1,430	19,998,259	32.6	41.0
1912	129	1,581	25,550,059	34.4	45.5
1913	140	1,689	30,228,520	38.1	50.0
1914	141	1,828	31,446,823	41.2	53.2
1915	131	1,686	34,057,426	47.1	60.8
1916	139	1,817	39,312,376	49.9	63.5
1917	151	1,920	47,232,880	47.3	61.3
1918	174	2,054	50,027,291	47.5	57.0
1919	199	2,124	42,993,172	53.8	58.6
1920	208	2,330	45,130,629	56.2	62.6
1921	235	2,760	50,243,470	60.9	64.5
1922	205	2,762	41,168,621	59.1	69.3
1923	241	3,049	51,057,868	65.5	70.4
1924	215	3,033	50,064,304	67.7	72.5
1925*	165	2,540	74,826,359	69.6	78.5
1926	149	2,259	50,736,684	65.4	78.8
1927	151	2,397	32,681,281	66.8	77.5
1928	139	2,158	41,099,267	72.4	82.7
1929	139	1,989	45,907,547	76.0	85.3
1930	129	1,606	40,015,407	75.9	87.2
1931	111	1,385	32,587,944	73.5	89.2
1932	102	1,144	22,165,199	70.3	89.5
1933	94	1,014	26,972,132	67.6	90.5
1934	101	1,042	29,395,102	69.2	90.0
1935	103	1,011	30,857,109	66.9	90.0
1936	108	1,062	35,827,656	74.0	93.3
1937	103	927	34,031,392	74.6	92.3
1938	99	958	26,939,302	79.8	94.9
1939	92	740	30,312,078	76.7	95.6
1940	91	903	34,734,192	81.2	89.1
1941	83	623	35,944,467	75.4	95.4
1942	91	632	42,571,922	80.5	94.2
1943	100	658	51,090,624	87.7	95.5
1944	102	684	54,412,942	81.0	96.3
1945	102	638	52,334,080	83.6	96.7
1946	106	798	46,660,727	85.5	99.6
1947	103	637	46,770,716	84.4	99.5
1948	100	577	44,784,161	87.0	97.9
1949	103	570	31,579,018	92.0	98.9
1950	98	543	36,337,125	89.1	95.9
1951	94	496	35,078,767	91.3	99.3
1952	77	391	27,824,311	91.7	99.6
1953	63	299	28,312,383	92.6	99.5

*** From July 1, 1924 to December 31, 1925.**

HAULAGE

Very few of the primitive haulage methods were used in Illinois mines, such as putters, wheel barrows and dog-drawn cars, for mule haulage was almost at once largely adopted with the advent of shipping mines. Rope or cable haulage rapidly developed underground from its use in horse-drawn winding operation for drifts, shafts and slopes. In general, in those early days, T iron rails were used only for main lines, most of the coal gathering being on wood rails and wood switches.

The string-team of mules for main line haulage was unique in its operation. The lead mule, sometimes as many as four or five others following, was very proud of his choice for intelligence. He, or she, did very little pulling. Horses for string teams were usually of no value. They did not have the safety sense to stand in limited spaces as the trip speeded by them, they were too clumsy to turn quickly, and their hoof angle was too acute to avoid the hazards of track frogs and switches. Much thought was given to the replacement of the string-teams. This, at first, was the rope system and later the locomotive. Much of their progress, however, was unfair to the mule system, for the haulage grades and track conditions were greatly improved for the new mechanical plans.

Sixty-seven years ago, 1887, the first electric mine locomotive was put in service. The conductor was an iron T rail spiked to timbers. This was the PIONEER, but in 1889 it was superseded by another that used a No. 0 hard drawn copper wire suspended from the roof.

The first electric locomotive in a bituminous mine was the Jeffrey GEORGE UPSON in an Ohio mine in 1888. It weighed two tons and had a 20 HP motor. In Illinois the first one was the SPERRY. It was in Mine No. 3 of the C. W. & V. Coal Company at Streator. This also was in 1888. It had eight driving wheels and a 30 HP motor. In a few months it was replaced with an 8-ton unit with eight driving wheels on two bogey trucks, each wheel geared to the armature of a 60 HP motor.

In 1900 seven mines used locomotives, which was an increase of three over the previous and last year of the 19th century. Other methods of haulage that first year of the 20th century were: cable, 27 mines; horse or mule, 512 mines; hand, 374 mines. The next year twelve mines had locomotives, 1902 had ten, 1903 had fourteen, 1904 had fourteen, 1905 had nineteen, and 1910 had thirty-four. (See Table 18, following, for this and other haulage data from 1907-1953 inclusive.)

There have been a few compressed air locomotives and gasoline locomotives, but the electric ones now supply the entire Illinois coal field, chiefly trolley for main lines and combination trolley and electric cable for gathering, the cable connected to the trolley wire automatically being unreeled and reeled as the locomotive travels in non-trolley-wire areas. Battery locomotives have been used to a limited extent in Illinois.

Locomotives, both main line and gathering, have increased in weight and horse power. On main lines 20-ton and for gathering 8-ton locomotives are not uncommon.

Equal, if not greater, advance has been made in the coal carriers. The end swing gate type of pit car has become obsolete in shipping mines. They were gradually being replaced by the lift gate type for self-dumping cages some one-third of a century ago. In competition with these are the more modern underground steel rotary dump or drop bottom cars, with bearings and springs approaching the style of modern railroad cars, and with automatic couplers. These have a capacity sometimes of over ten tons each. Some mines have adopted the continuous belt system and a few the belt system for slope hoisting.

Among the latest coal mine developments is the shuttle car, an electric cable or battery rubber-tired buggy of large pit car capacity that operates between the haulage or conveyor entry and the loading machine. It is equipped with a floor conveyor and angled end to empty itself quickly into the entry pit car or on the moving conveyor while another shuttle car is being loaded by the loading machine.

The earliest history of track development and the wheel flange began at coal mines in Great Britain. The flange was first nailed to the 10-inch by 10-inch wood rails down the lengthy slope from the drift mouth to the barge. Some ingenious miner conceived of making the wagons four-wheeled and nailing the flange on the wheels. Audiences, similar to those now collecting to see the newest jet engines, gathered to view the new miraculous track retaining wagons. From this came the T iron rail and the double flanged metal wheel—then the single flange.

The railway progress of track has been adopted underground, many coal mine main lines being equal to those of surface railways as to ballast and track, although steel ties, originating about 1910, are frequently used with the wood ones for gage stability. They are especially designed for temporary track.

TABLE 18—NUMBER OF SHIPPING MINES USING MOTORS, NUMBER USED, AND TONS HAULED WITH PERCENTAGES, 1907-1954

Year	Number mines using	Number used	Tons hauled	Per cent of	
				Mines using	Product hauled
1907	75	129	16,542,575	18.3	35.6
1908	88	185	19,024,665	21.6	39.8
1909	96	210	21,892,462	25.0	45.6
1910	106	229	23,204,480	27.2	49.1
1911	137	316	29,310,173	35.5	60.2
1912	165	381	37,958,050	44.0	67.7
1913	185	466	46,194,737	50.4	76.5
1914	191	540	47,485,729	56.8	80.2
1915	172	604	47,239,554	62.8	84.4
1916	176	648	53,140,005	62.6	85.8
1917	200	774	67,196,786	62.7	87.3
1918	240	960	77,662,619	65.6	88.4
1919	259	1,144	66,686,930	70.0	90.9
1920	276	1,228	66,441,191	74.6	92.2
1921	280	1,406	71,329,567	72.5	91.6
1922	232	1,364	55,028,080	66.9	90.4
1923	285	1,547	70,863,815	77.4	97.7
1924	259	1,565	65,900,698	81.4	95.3
1925	195	1,360	92,185,121	82.3	96.7
1926	182	1,288	61,486,775	79.8	95.5
1927	180	1,250	40,144,446	79.6	95.2
1928	158	1,182	49,007,549	82.3	97.7
1929	156	1,281	52,426,315	85.2	97.4
1930	133	1,201	41,181,378	78.2	90.0
1931	123	1,205	35,459,159	81.5	97.1
1932	124	1,117	24,357,088	85.5	98.3
1933	117	1,044	29,459,870	84.2	98.9
1934	124	1,156	32,378,082	84.9	99.2
1935	122	1,137	33,686,091	79.2	98.3
1936	123	1,240	37,950,347	84.2	98.8
1937	116	1,288	36,341,172	84.1	98.5
1938	106	1,251	27,988,198	85.5	98.6
1939	106	1,230	31,318,349	88.3	98.8
1940	104	1,112	36,972,431	92.8	98.7
1941	95	954	38,012,446	84.1	98.6
1942	107	1,240	43,064,306	94.7	95.3
1943	105	1,335	51,918,418	92.1	97.1
1944	106	1,312	55,060,045	84.1	96.9
1945	102	1,262	53,278,465	83.6	98.4
1946	109	1,337	46,215,166	87.9	99.1
1947	98	1,271	42,983,109	80.3	91.9
1948	89	1,118	42,270,669	77.4	92.4
1949	94	1,107	31,419,416	83.9	98.4
1950	99	1,153	38,468,443	90.0	98.3
1951	95	1,073	32,885,513	92.2	93.1
1952	77	883	26,271,031	91.7	94.1
1953	59	651	23,803,952	86.8	83.7

MECHANICAL LOADING

Seventy-five or more years have been spent in experimentations with, and development of, mechanical loading devices. In 1890 a Stanley Header with conveyor was in operation at the Bennett mine, Lebanon.

The first mobile loader on the market was the Hamilton, installed in the Dewmaine mine of the St. Louis & Big Muddy Coal Company in 1903. This machine employed the "Sweep-chains" gathering principle, a continuous chain to dig out and pick up the coal. It is reported to have averaged 150 tons per day.

In 1914 the Jeffrey entry driver was used in the Old Ben Coal Company No. 9 mine in West Frankfort and in 1919 three were in use at the Valier Coal Company mine, also in Franklin County. A McKinlay entry driver was in use in the Southern Coal, Coke & Mining Company mine at Belleville.

By 1920 Joy loaders and Myers-Whaley shovels and in 1929 the Clarkson loader were in use in the C. W. & F. Coal "Orient No. 1" mine in Franklin County. This company at their Orient No. 2 mine made the first loading machine wage contract in 1924.

In 1922 the Union Collieries at Dowell were using a Conway Rock Loader, and Old Ben Coal Corporation at West Frankfort was using a Shoveloader for rock. The same year the Southern Coal, Coke & Mining Company, Belleville, was using a Wilson Chainloader.

In 1924 the Union Collieries Company was using a Goodman Power Shovel at Dowell. In 1925 twenty Shortwaloaders were shipped to the J. K. Dering Coal Company's Illinois and Indiana mines, and the U. S. Fuel Company had a Sullivan Loader in their Georgetown mine.

In 1928 state-wide mechanical loading agreements were signed between miners and operators in our State, and large scale use of pit car loaders began.

By 1936 many Joy, Jeffrey, Goodman, Clarkson, Jones, Myers-Whaley, Sullivan, Oldroyd and others were in use, including occasional of the Duckbill type.

Accelerated progress in mechanical loading has been accomplished in the last twenty years, the loading machines increasing in efficiency, greatly assisted by improved and more rapid delivery of coal from the mechanical loaders, chiefly by rubber-tired shuttle cars, conveyors or big capacity pit cars; also, ample equipment at close range for quick "spotting" of empty shuttle or pit cars.

Continuous miners have received the most of recent developments. The McKinlay and Jeffrey entry drivers of three or more decades ago were also coal loaders. So are the more recent ones, including the new Jeffrey, Joy, Goodman, Marietta and others. They all loosen the face coal by sharp revolving or impact special metal bits and convey it backwards into mobile equipment for delivery. All continuous miners and mechanical loaders are mobile.

Tables Nos. 19, 20 and 21 follow, that show the great strides in coal production in Illinois, brought about by the use of mechanical loading since 1927.

TABLE 19—NUMBER OF MINES USING LOADING MACHINES, NUMBER OF MACHINES USED, TONS LOADED AND PERCENT OF MINES USING AND TONS LOADED, BY YEARS, 1927-1954

Year	Mechanical loaders			Shipping mines operated (Exclusive of strippings)		Per cent of	
	Number of mines using	Number of machines used	Tons loaded	Number	Tons mined	Mines using machines	Tons mined
1927	21	129	1,637,858	226	42,169,025	9.3	3.9
1928	54	992	6,742,134	191	50,040,167	28.3	13.5
1929	73	2,128	17,830,368	183	53,825,404	40.0	33.1
1930	69	2,238	23,249,881	170	45,776,272	40.6	50.8
1931	74	2,420	22,445,782	188	36,524,182	39.4	61.4
1932	68	2,280	15,412,656	172	24,774,171	39.5	62.2
1933	51	1,752	17,766,216	139	29,791,671	36.7	59.6
1934	48	1,621	18,600,174	146	32,647,309	32.9	57.0
1935	54	1,626	20,651,707	154	32,929,065	35.0	62.7
1936	64	1,573	25,205,170	146	38,412,359	43.9	65.6
1937	69	1,456	28,374,362	138	36,886,002	50.0	76.9
1938	65	1,157	23,450,474	124	28,383,860	52.4	82.6
1939	66	*856	26,655,664	120	31,698,560	55.0	84.1
1940	64	761	30,851,086	123	34,008,073	52.0	90.7
1941	76	688	33,667,773	135	37,666,232	56.3	89.4
1942	78	743	41,904,801	110	45,213,467	70.9	92.7
1943	71	694	48,597,068	118	53,486,909	60.2	90.8
1944	74	679	50,719,930	126	56,850,395	58.7	89.2
1945	74	664	49,269,122	136	54,118,538	54.4	91.0
1946	75	652	42,616,892	122	46,448,832	61.5	91.7
1947	78	632	44,323,843	125	47,515,570	62.4	93.3
1948	73	587	43,198,538	117	45,549,356	62.4	94.8
1949	66	557	30,481,167	112	31,936,637	58.9	95.4
1950	73	537	36,312,604	110	37,887,792	66.4	95.8
1951	71	495	34,142,184	103	35,305,166	68.9	96.7
1952	67	378	27,161,125	84	27,933,411	79.8	97.2
1953	54	317	28,011,081	68	28,351,587	79.4	98.8

* Relative low figure is due to rapid discontinuance of pit car conveyors.

TABLE 20—MECHANICAL LOADING, TWENTY-SEVEN YEARS, TOTAL OUTPUT AND PART OF OUTPUT, NUMBER OF MINES, MACHINES AND TONS LOADED IN EACH CLASS AND TOTAL TONNAGE LOADED MECHANICALLY—1927-1954

Year	Loaded mechanically						Total tons loaded mechanically
	Total output			Part of output			
	Mines	Machines	Tons	Mines	Machines	Tons	
1927	6	64	1,172,112	15	65	465,746	1,637,858
1928	17	177	2,299,720	37	815	4,442,414	6,742,134
1929	22	603	5,882,615	51	1,525	11,947,753	17,830,368
1930	31	1,247	13,483,910	38	991	9,765,971	23,249,881
1931	36	1,504	15,138,330	38	916	7,307,452	22,445,782
1932	41	1,702	10,899,555	27	578	4,513,101	15,412,656
1933	32	1,313	13,344,573	19	439	4,421,643	17,766,216
1934	32	1,364	15,107,934	16	257	3,492,240	18,600,174
1935	33	1,322	16,649,144	21	304	4,002,563	20,651,707
1936	37	1,210	18,540,558	27	363	6,664,612	25,205,170
1937	42	1,127	21,192,003	27	329	7,182,359	28,374,362
1938	45	*935	19,360,718	20	222	4,089,756	23,450,474
1939	47	611	20,023,681	19	245	6,631,983	26,655,664
1940	50	631	26,413,496	14	130	4,437,590	30,851,086
1941	58	561	29,308,412	18	127	4,359,361	33,667,773
1942	66	631	37,350,137	12	112	4,554,664	41,904,801
1943	56	598	45,422,135	15	96	3,174,933	48,597,068
1944	60	577	45,529,829	14	102	5,790,101	50,719,930
1945	59	562	43,152,237	15	102	6,116,885	49,269,122
1946	64	566	38,527,365	11	86	4,089,527	42,616,892
1947	65	584	42,946,063	9	48	1,377,780	44,323,843
1948	70	559	42,469,316	3	28	729,222	43,198,538
1949	63	542	29,263,382	3	15	1,217,785	30,481,167
1950	70	531	37,855,197	3	6	32,595	37,887,792
1951	68	489	33,531,058	3	6	611,126	34,142,184
1952	59	365	26,549,584	8	13	611,541	27,161,125
1953	50	305	27,451,029	4	12	560,052	28,011,081

* Relative low figure is due to rapid discontinuance of pit car conveyors.

Mechanical loading in the State's Annual Coal Reports and the 1930 Compilation includes Hand Conveyors. The following table separates them, showing hand conveyors' tonnage and loading machines' tonnage separately.

TABLE 21—MECHANICAL LOADING—HAND CONVEYORS AND LOADING MACHINES—NUMBER OF MINES USING, NUMBER OF MACHINES USED AND TONS LOADED—SHIPPING MINES—1927-1954

Year	Hand conveyors			Loading machines		
	Mines using	Machines used	Tons handled	Mines using	Machines used	Tons loaded
1927	10	50	316,161	11	79	1,341,697
1928	52	867	3,517,997	31	125	3,224,157
1929	61	1,909	11,434,835	30	219	6,395,533
1930	58	1,982	13,025,482	34	256	10,224,399
1931	61	2,131	12,258,373	41	289	10,187,429
1932	55	1,978	7,519,089	37	302	7,893,567
1933	40	1,462	6,880,906	29	290	10,885,310
1934	34	1,340	6,974,107	30	281	11,626,067
1935	33	1,301	7,759,559	33	325	12,896,807
1936	31	1,158	7,555,813	50	415	17,649,357
1937	31	960	5,267,498	60	496	23,106,864
1938	26	646	2,777,447	58	511	20,673,027
1939	22	333	1,658,137	62	523	25,138,803
1940	18	225	1,261,197	58	510	28,588,104
1941	15	151	1,003,623	60	533	32,664,150
1942	14	175	1,095,676	64	568	40,809,125
1943	14	130	1,169,080	65	564	47,427,988
1944	10	82	881,456	71	597	49,838,474
1945	10	102	524,226	72	562	48,744,896
1946	8	58	468,291	72	593	42,148,601
1947	6	32	217,512	76	600	44,106,331
1948	2	18	70,548	73	569	43,127,990
1949	1	1	123	69	556	30,481,044
1950	---------	---------	---------------	73	537	36,312,604
1951	---------	---------	---------------	71	495	34,142,184
1952	---------	---------	---------------	67	378	27,161,125
1953	---------	---------	---------------	54	317	28,011,081

EXPLOSIVES USED IN MINING COAL

From the earliest record to the close of the last century, black blasting powder was the only explosive used for blasting coal. Because of the danger attending its use, experimentations began in seeking to find a substitute which would be as efficient in blasting coal and less hazardous in its use.

Permissible explosives were in use in Europe and eventually were used in the mines of Franklin County, the first record being in the fiscal year of 1911 when, for that year, five mines of that county used permissibles exclusively and two used permissibles and black powder. The other seven mines that year used black powder exclusively. Two hundred forty-two thousand seven hundred twenty-four pounds of permissibles were used in 1911. In 1912, 326,925 pounds of permissibles were used in that county.

For several years permissible explosives were used in a limited way in a few mines in the State. The element of safety in the use of "permissibles" had so recommended itself that, by 1915, this form of explosive was coming into general use and in that year 1,342,334 pounds were used, and its consumption has steadily increased.

A quarter of a century ago pellet powder, which is black powder pressed into a cartridge, came into rather extensive use. Although not a permissible, it was safer than black powder to handle. Table No. 22 that follows shows its use from 1929 to 1954.

An Illinois invention and development in coal breakage from the coal face is Cardox by Helmholtz, Farrell and Crawford. Its energy comes from the expansion of carbon dioxide in a hollow steel shell. The shell is pushed to the end of a drill hole. It is electrically detonated. At a certain predetermined pressure, the energy is liberated and the coal, previously mined, is broken similar to that from an explosive except at lesser unit pressure, requiring over double the number of drill holes per working face. It is a permissible.

Airdox, also permissibly accredited by the U. S. Bureau of Mines to break down coal, was begun in the 1940's. Its action is similar to cardox but is an expansion of highly compressed air from the cartridge-shell instead of carbon dioxide. There is, however, no electric detonation. The highly compressed air in the shell is suddenly liberated by an airwave impulse through the flexible tubing. This impulse is begun by valve action by the worker at the outby end of the tubing. Compressors may be stationary on the surface or in the mine, or may be portable.

Airdox is accepted for on-shift loosening of coal in states where permissible explosives and cardox are compelled to be used off-shift. Its working force per unit area is less than cardox, thus requiring approximately double the number of drill holes. The hazard of flying shells is largely reduced, and shattered effect upon the broken coal is reduced to a minimum.

Chemechol, also permissibly accredited by the U. S. Bureau of Mines, was begun in the early 1950's. As the name implies, it is a sudden chemical change in a cartridge. Detonation is from an electric battery. More drill holes are required than for explosives, thus largely eliminating shattering effect upon broken coal.

In the last decade continuous miners have developed beyond their experimental stages and have begun to be manufactured in number by several mining and loading machine manufacturers. These machines eliminate the need for blasting. The coal is broken from the coal face by revolving or impact force of sharp metal bits. Electricity is the source of power. As their name implies, the loosening and the loading of the coal is done by the same machine in simultaneous and continuous operation.

TABLE 22—EXPLOSIVES USED FOR BLASTING COAL

Year	Blasting powder—kegs	Permissible explosives—pounds	Pellet powder	Dynamite†	Tons mined
1882	113,946	---	---	---	9,115,661
1883	131,360	---	---	---	10,508,785
1884	144,378	---	---	---	10,101,004
1885	140,382	---	---	---	9,791,874
1886	127,099	---	---	---	9,246,435
1887	128,486	---	---	---	10,278,890
1888	190,710	---	---	---	11,885,188
1889	198,831	---	---	---	11,597,963
1890	233,739	---	---	---	12,638,364
1891	252,751	---	---	---	15,660,698
1892	288,774	---	---	---	17,862,276
1893	341,415	---	---	---	19,949,564
1894	237,563	---	---	---	17,113,576
1895	323,143	---	---	---	17,735,864
1896	318,275	---	---	---	19,786,626
1897	392,133	---	---	---	20,072,758
1898	379,986	---	---	---	18,599,299
1899	201,285	---	---	---	23,434,445
1900	490,713	---	---	---	25,153,929
1901	477,612	---	---	---	26,685,319
1902	637,448	---	---	---	30,021,300
1903	806,311	---	---	---	34,955,400
1904	923,418	---	---	---	37,077,897
1905	938,500	---	---	---	37,183,374
1906	1,027,473	---	---	---	38,317,581
1907	1,261,910	---	---	---	47,798,621
1908	1,328,454	---	---	---	49,272,436
1909	1,280,607	---	---	---	49,163,710
1910	1,254,095	---	---	---	48,717,853
1911	1,239,293	---	---	---	50,165,099
1912	1,313,448	---	---	---	57,514,240
1913	1,309,382	---	---	---	61,846,204
1914	1,264,288	---	---	---	60,715,795
1915	1,107,326	1,342,334	---	---	57,601,694
1916	1,150,504	1,536,726	---	---	63,673,530
1917	1,522,363	1,827,501	---	---	78,983,517
1918	1,965,060	2,064,041	---	---	89,979,469
1919	1,602,008	2,461,331	---	---	75,099,784
1920	1,367,885	2,405,356	---	---	73,920,653
1921	1,593,527	2,621,006	---	---	80,121,948
1922	1,184,200	2,337,980	---	---	63,276,827
1923	1,357,369	2,955,608	---	---	75,514,095
1924	1,229,859	3,299,727	---	---	72,308,665
1925*	2,139,478	5,648,042	---	---	103,186,166
1926	873,797	3,458,239	---	---	69,813,255
1927	623,773	2,587,327	---	---	46,949,700
1928	671,703	3,591,660	---	---	56,211,082
1929	414,271	3,910,677	2,369,696	---	61,127,759
1930	455,980	3,971,130	998,551	---	54,035,116
1931	295,760	2,406,186	4,542,577	115,395	45,152,623
1932	215,778	1,669,636	2,940,722	125,750	34,120,786
1933	230,721	1,760,985	3,988,617	71,963	38,320,125
1934	289,164	1,877,380	4,764,606	99,706	41,724,078
1935	256,296	2,188,214	5,276,649	351,532	45,013,278
1936	279,219	2,330,854	6,596,956	965,900	51,475,899
1937	219,661	2,611,811	6,941,151	1,229,889	52,432,255
1938	140,312	2,119,029	5,991,452	808,002	42,387,368
1939	139,829	2,396,778	6,542,077	756,039	47,627,454
1940	138,260	3,248,226	6,597,488	766,314	51,871,704
1941	152,332	6,955,738	7,005,772	2,089,299	55,365,835
1942	146,278	9,318,979	6,895,593	2,683,407	65,746,204
1943	129,297	9,347,767	5,661,237	2,965,252	73,344,761
1944	123,058	11,693,554	6,804,033	2,826,097	77,400,031
1945	88,417	10,510,620	6,327,224	3,411,956	73,446,930
1946	53,797	9,411,904	7,542,411	4,127,965	63,767,082
1947	28,699	9,201,857	6,089,284	2,042,904	68,325,241
1948	21,474	6,126,620	5,078,638	3,299,491	66,166,805
1949	25,954	4,562,484	3,288,639	1,743,405	47,630,380
1950	10,910	5,017,504	3,533,043	2,675,822	57,282,303
1951	10,175	3,497,066	1,770,157	2,404,033	54,869,679
1952	8,617	2,914,117	1,039,175	2,200,984	45,752,588
1953	1,833	1,795,520	395,989	2,745,147	45,966,114

* From July 1, 1924 to December 31, 1925.

† Chiefly to loosen overburden at strip mines.

ROCK DUST

Of historical importance in coal mine safety is the part Illinois has taken in the development and practical application of rock dust for the prevention of coal dust propagation of mine explosions.

The action of coal dust in mine explosion disasters was recognized by Buddle in Great Britain in the early 1800's and was demonstrated with laboratory tests by Faraday following the Hagwell explosion in Durham in 1844. A few years later Galloway and Atkinson advanced the theory of stone dusting. There then followed test galleries and demonstrations of its value.

The first type of rock dust applications in European mines was its distribution between the mine rails and its dispersion by a tree branch dragged at the back end of each pony drawn trip of pit cars. A great deal of thought was given to design and erection of stone dust barriers that would automatically trip from the preceding air wave and the stone dust to be in suspension upon arrival of the explosion flame.

Soon following the origin of the United States Bureau of Mines on May 16, 1910, much attention was given here to prevention of mine explosions, many of which in those years were occurring in coal mines in the United States. There soon followed the Bureau's driving of the experimental drift mine near Bruceton, Pennsylvania (16 miles from Pittsburgh) to determine and to prove the value of stone dust (termed rock dust in the U. S. A.). Steel cylinder galleries had and were being used for the same purpose. This work was under the direction of George S. Rice, then Chief Engineer of the Bureau.

Following success in stoppage of coal dust explosion propagation by rock dust, many public demonstrations were made at the Experimental Mine before mining men. While of great interest, this safety plan was not adopted. Its only application in an occasional coal mine was temporary, usually a walls and roof application demonstration over a short distance of mine passage by a Bureau of Mines man. There was partial success of its installation in an occasional mine for a short period of time, usually done by a manager who had experienced stone dusting in Europe.

Early in the three-year term of State Inspector John E. Jones in the gassy mines of Southern Illinois, he became convinced of the inadequacy of the mining laws of that period to prevent explosion propagation. His experience with explosions convinced him that high ash mine dust was the most dependable safeguard to prevent a small explosion from any source becoming a possible disaster. His sincerity to convince authorities created, somewhat in derision in those early years, the nickname "Rock Dust Johnny".

Following the explosion of the New North mine at Christopher, Illinois, on Thanksgiving night, 1917, (a terrific gas and coal dust explosion of great force and flame throughout the mine and up both shafts, the flame extending 150 feet in the air) Inspector Jones and President D. W. Buchanan of the Old Ben Coal Corporation, became the pioneers in the practical application and success of applied rock dusting. The sudden death of the seventeen men of the small night shift below that night (a small number on account of the holiday) was tragic but consideration upon such possible occurrence on the day shift, when over 600 men were below, also was of great concern. That explosion truly became the one that figuratively was heard all around the world.

With Jones as the company's safety engineer, they first contacted the U. S. Bureau of Mines upon proper procedure. The Bureau studied an adjacent mine of similar conditions upon explosion hazards in great detail and recommended rock dusting and closed lights for miners' illumination. While this was the first effort to replace open lights with electric battery lamps, that effort won after many years of controversy and discouragement.

Rock dusting in the Experimental Mine by hand application was a simple procedure on shelves along a short distance in its quarter mile length of a pair of entries. However, the shelves plan was adopted but soon failed in operating mines. The application by laborious hand throwing of rock dust on roof and ribs was successful but very costly and inefficient to cover the many miles of mine passages. This was soon overcome by invention and development of motor and fan rock-dust-machine for ribs and roof coating application. Also greater mass installations successively at ten feet intervals for voluminous dispersion of rock dust were developed for more rock dust to be automatically dispersed by the air wave preceding the explosion flame.

My close contact with the work of these two men, each with nearly sixty years of coal mine experience, impressed me with their many difficulties. Not only were there no practical applications to follow, but there was no rock dust. Mr. Buchanan solved this by expensively grinding their own with installation of a flour ball mill at one of the mines to grind shale found by the Bureau to be correct by analysis. The shale overlies their coal seam, hence the local name "shale dust".

The faith Mr. Jones had in the safety measure prompted articles by him in the industrial periodicals and lectures from the early 20's in all of our major coal fields, a self-imposed task that took several years to fully materialize.

Although covered by patents for self-protection, the developments were given by Old Ben for safety in all coal fields against coal mine explosion disasters, as follows:

> "In accordance with the requirement of the Patent Office, only a portion of the subject matter disclosed herein is claimed, but I would have it understood that all such matter disclosed, whether claimed or not, is dedicated to the people of the United States of America and may be used by the Government or any of

its officers or employees, in prosecution of work for the Government, or by any other person in the United States, without payment of any royalty thereon."

It is indeed with pride that I record for posterity this pioneer work, which I personally know has saved hundreds of lives in the mines of our State alone. Their cooperative work with the U. S. Bureau of Mines and various State Mining Departments in this mine safety measure is indeed fully appreciated by miners and officials throughout our own State and our Nation.

Ben H. Schull
Director

FATALITIES

Beginning with the year 1882, reports have been made each year of all employees who have lost their lives in and about the mines of the State. These reports are made after a careful investigation of the cause by the State inspector of the district in which the mine is located and published in the Annual Coal Report.

From a careful summary of Table 23 and Table 24, 1882-1954, which follows reveals the fact that a total of 8,441 men lost their lives while in the line of duty and that 81,834 sustained injuries resulting in a loss of thirty or more days time to each man.

How many of these accidents could have been prevented is impossible to say, but an analysis of the causes is conclusive that, if the proper precautions had been taken by the management, employees and the victim himself, many of them—perhaps more than half—would not have happened.

Fifty to sixty deaths per year is too large an industrial toll to pay. A large percentage is from carelessness. These avoidable accidents must be reduced to a minimum and it is gratifying to know that they are decreasing on an average each year. This decrease in avoidable accidents is, no doubt, due largely to the training the men have received, to the increasing efficiency of the mine inspection service and to the rigid examination the miner is subjected to before he is allowed to engage in the occupation of mining coal. In substantiation of this conclusion, we find that, from 1882 to 1913, 234,317 tons were mined and 398 employed to one man killed; while, from 1913 to 1930, 404,803 tons were mined and 480 employed to each life lost, and from 1931 to 1953 inclusive, a span of 23 years, there were 642,281 tons mined to one man killed and 449 employed to each life lost.

It is not claimed, however, that the causes above referred to are the only ones which have brought about the reduction in fatalities or increased production to one man killed. There are other contributing causes. Among them may be mentioned electrification and mechanization of the mines. To facilitate the study of the effect of these causes on the ratio of production to fatalities, the time from 1882 to 1955 has been divided into five periods.

In the first period, 1882-1887, six years, nearly all mining was done by hand. During this period 59,042,649 tons were mined; the average number of employees was 24,733 and the fatalities were 352.

The second period, 1888-1901, is for the time from the year when the production of mining machines was first reported, to and including 1901, a series of 14 years. During this period, 258,095,869 tons of coal were produced, an average of 35,237 men employed and 981 fatalities.

The third period is for a series of 25 years and extends from 1902, the first recorded use of electric motors in underground haulage, to 1926. During this period the mines produced 1,506,229,113 tons, employed an average for each year of 77,314 men and had a fatality list of 4,678.

The fourth period, 25 years, is from 1927, the introduction of mechanical loading devices, to December 31, 1951. The mines in these 25 years yielded 1,371,794,478 tons, the average number employed was 43,538, and 2,348 men were killed.

The fifth period, which is for three years, is from 1952 to 1955. These, no doubt, are the best three years in safety the coal mining industry has had in the State's history. The mines in these three years have yielded 133,494,454 tons. The average number employed was 19,810, and 82 killed. The tons mined to one man killed was 1,627,981. The lower rates for the last three years, per thousand employed and per million tons mined, are indeed encouraging and give promise of further reductions.

Table 23—The following table shows the tonnage mined, average number employed, the number killed, the tons mined per fatality and the number killed per 1,000 employed and per 1,000,000 tons mined

Periods	Tons mined	Average number employed	Number killed	Tons mined to one killed	Number killed to	
					1,000 employed	1,000,000 tons mined
First period, 1882-1887—Six years	59,042,649	24,733	352	167,735	2.4	5.96
Second period, 1888-1901—Fourteen years	258,095,869	35,237	981	263,146	2.0	3.8
Third period, 1902-1926—Twenty-five years	1,506,229,113	77,314	4,678	321,981	2.4	3.1
Fourth period, 1927-1951—Twenty-five years	1,371,794,478	43,538	2,348	584,240	2.2	1.7
Fifth period, 1952-1955—Three years	133,494,454	19,810	82	1,627,981	1.4	.6

In the following table, No. 24, the ratio of fatal and non-fatal accidents to 1,000 men employed and to 1,000,000 tons of coal mined, is shown by years, 1882-1954.

From this table, it will be seen that the fewest fatalities per 1,000 employees were during the year 1949, and the years 1952 and 1953 are the lowest in the loss of life per 1,000,000 tons mined. The 0.6 fatality per million tons produced is the lowest for the entire 73-year period.

In 1923, the last year in which strip mines produced less than one million tons, the fatality rate (for shaft mines) was 2.1 per million tons produced. In 1953, the rate was 0.8 for shaft mines alone.

TABLE 24—TONS OF COAL MINED, NUMBER EMPLOYED, NUMBER KILLED AND INJURED, TONS MINED TO ONE MAN KILLED AND INJURED, AND RATIOS PER 1,000 EMPLOYED AND PER 1,000,000 TONS MINED—1882-1954, INCLUDING INJURIES INVOLVING LOSS OF 30 DAYS OR MORE

Year	Tons mined	Number employed	Accidents		Tons mined to one man		Accidents			
							Per 1,000 employed		Per 1,000,000 tons mined	
			Fatal	Non-fatal	Killed	Injured	Fatal	Non-fatal	Fatal	Non-fatal
1882	9,115,661	20,290	40	50	227,892	182,313	2.0	2.5	4.4	5.5
1883	10,508,785	23,939	134	231	78,424	45,493	5.6	9.1	12.8	22.0
1884	10,101,004	25,575	46	197	219,587	51,274	1.8	7.7	4.6	19.5
1885	9,791,874	25,946	39	147	251,074	66,611	1.5	5.7	4.0	15.0
1886	9,246,435	25,846	52	171	177,816	54,073	2.0	6.6	5.6	18.5
1887	10,278,890	26,804	41	180	250,905	57,105	1.5	6.7	4.0	17.5
1888	11,855,188	29,410	55	179	215,549	66,230	1.9	6.1	4.7	15.1
1889	11,597,963	30,076	42	201	276,142	57,701	1.4	6.7	3.6	17.3
1890	12,638,364	28,574	53	294	238,460	42,988	1.9	10.3	4.2	23.4
1891	15,660,698	32,951	60	367	261,012	42,672	1.9	11.1	3.9	23.4
1892	17,862,276	33,632	57	370	313,373	48,276	1.7	11.0	3.2	20.7
1893	19,949,564	35,390	69	403	289,124	49,502	1.9	11.4	3.5	20.2
1894	17,113,576	38,477	72	521	237,690	32,848	1.9	13.5	4.2	30.4
1895	17,735,864	38,630	75	605	236,478	29,315	1.9	15.7	4.2	34.1
1896	19,786,626	37,032	77	672	256,969	29,444	2.1	18.1	3.9	34.0
1897	20,072,758	33,788	69	518	290,909	38,750	2.0	15.3	3.4	25.8
1898	18,599,299	35,026	75	438	247,991	42,464	2.1	12.5	4.0	23.5
1899	23,434,445	36,901	84	597	278,981	39,254	2.3	16.2	3.6	25.5
1900	25,153,929	39,384	94	611	267,559	41,168	2.4	15.5	3.7	24.3
1901	26,635,319	44,143	99	422	269,549	63,235	2.2	9.6	3.8	15.8
1902	30,021,300	46,003	99	406	303,245	73,944	2.2	8.8	3.3	13.5
1903	34,955,400	49,814	156	410	224,073	85,257	3.1	8.2	4.5	11.7
1904	37,077,897	54,774	157	507	236,165	73,132	2.9	9.3	4.2	13.7
1905	37,183,374	59,230	199	535	185,852	69,502	3.4	9.0	5.4	14.4
1906	38,317,581	62,283	155	480	247,210	79,828	2.5	7.7	4.0	12.5
1907	47,798,621	66,714	165	636	289,689	75,155	2.5	9.5	3.5	13.3
1908	49,272,436	70,841	183	819	269,248	60,162	2.6	11.6	3.7	16.6
1909	49,163,710	72,733	213	894	230,816	54,993	2.9	12.3	4.3	18.2
1910	48,717,853	74,634	406	742	119,995	65,657	5.4	9.9	8.3	15.2
1911	50,165,099	77,410	157	709	319,523	70,755	2.0	9.2	3.1	14.2
1912	57,514,240	79,411	180	800	315,524	71,893	2.3	10.7	3.1	13.9
1913	61,846,204	79,497	175	1,025	353,407	60,338	2.2	12.9	2.8	16.2
1914	60,715,795	80,035	159	1,079	381,860	56,691	2.0	13.4	2.6	17.6
1915	57,601,694	75,607	180	1,013	320,009	56,870	2.4	13.4	3.1	17.6
1916	63,673,530	75,919	165	1,305	385,900	48,792	2.2	17.2	2.6	20.5
1917	78,983,517	80,893	207	1,634	381,563	48,338	2.6	20.2	2.6	20.7
1918	89,979,469	91,372	259	2,161	347,411	41,638	2.8	23.7	2.9	24.0

TABLE 24—Concluded

Year	Tons mined	Number employed	Accidents		Tons mined to one man		Accidents			
							Per 1,000 employed		Per 1,000,000 tons mined	
			Fatal	Non-fatal	Killed	Injured	Fatal	Non-fatal	Fatal	Non-fatal
1919	75,099,784	90,897	208	2,620	361,057	28,664	2.3	28.8	2.8	34.9
1920	73,920,653	88,192	181	3,571	408,401	20,700	2.5	40.5	2.4	48.3
1921	80,121,948	95,763	222	4,327	360,910	18,517	2.3	45.2	2.8	54.0
1922	63,276,827	98,090	159	3,879	397,962	16,315	1.6	39.5	2.5	61.3
1923	75,514,095	103,566	161	3,615	469,032	20,889	1.6	34.9	2.1	47.9
1924	72,308,665	99,765	184	3,895	392,982	18,565	1.8	39.0	2.5	53.9
1925†	103,186,166	81,684	183	4,712	563,859	21,713	2.4	57.7	1.8	46.0
1926	69,813,255	77,732	165	3,083	423,111	22,642	2.1	39.7	2.4	44.2
1927	46,949,700	78,572	106	1,398	442,922	33,583	1.3	18.0	2.3	29.8
1928	56,211,082	65,508	139	2,176	404,396	25,832	2.1	33.2	2.5	38.7
1929	61,127,759	58,596	109	2,392	560,805	25,556	1.9	40.8	1.8	39.1
1930	54,035,116	56,011	112	1,837	482,456	29,415	2.0	*32.8	2.1	34.0
1931	45,152,623	53,550	90	1,530	501,696	29,512	1.7	28.6	2.0	33.9
1932	34,120,786	51,554	114	951	299,305	35,879	2.2	18.4	3.3	27.9
1933	38,320,125	48,464	71	1,197	539,720	32,013	1.5	*24.7	1.9	*31.2
1934	41,724,078	48,499	86	1,122	485,164	37,522	1.8	*23.1	2.1	*26.9
1935	45,013,278	49,100	82	1,225	548,907	36,743	1.7	*24.9	1.8	*27.2
1936	51,475,899	49,142	93	1,145	553,504	44,957	1.9	*23.3	1.8	22.2
1937	54,432,255	46,580	82	1,023	631,714	51,253	*1.8	*22.0	*1.5	*18.8
1938	42,387,368	43,420	85	816	504,612	51,945	*2.0	18.7	*2.0	*19.3
1939	47,627,454	40,909	80	837	595,343	56,903	*2.0	*20.5	*1.7	17.6
1940	51,871,704	38,019	83	774	624,603	67,008	2.2	*20.4	1.6	*15.0
1941	55,365,835	37,587	92	830	601,801	71,532	2.4	22.0	*1.7	*15.0
1942	65,746,204	36,041	94	983	710,066	66,883	2.6	*27.3	1.4	*15.0
1943	73,344,761	32,852	97	1,175	756,399	62,412	*3.0	*35.8	1.3	*16.0
1944	77,400,031	32,019	87	1,285	889,655	60,233	2.7	40.1	1.1	16.6
1945	73,446,930	31,109	75	1,260	979,292	58,291	2.4	40.5	*1.0	*17.2
1946	63,767,082	32,476	61	1,001	1,045,362	63,703	1.9	30.8	*1.0	15.7
1947	68,325,241	32,686	204	1,203	385,979	26,098	6.2	36.8	*3.0	17.6
1948	66,166,805	32,924	68	796	973,041	83,124	*2.0	*24.2	1.0	*12.0
1949	47,630,380	31,434	38	565	1,253,431	84,301	1.2	18.0	.8	11.9
1950	57,282,303	31,067	45	557	1,272,940	102,841	1.4	18.0	.8	9.7
1951	54,869,679	29,329	154	560	356,297	97,981	5.2	19.1	2.8	10.2
1952	45,752,588	23,821	31	441	1,475,890	103,747	1.3	*18.5	.7	*9.6
1953	45,966,114	18,945	28	399	1,641,647	115,203	1.5	*21.1	.6	8.7
1954	41,775,752	16,665	23	323	1,816,337	129,337	1.4	19.4	55	7.7
Average—73 years	45,604,436	51,128	116	1,118	394,119	40,791	2.3	21.9	2.5	24.5

* Typographical errors or errors in calculation in this table in occasional annual coal reports during last 24 years are corrected.
† July 1, 1924 to December 31, 1925.
Note—From 1882 to 1890 only net tons are shown.

The following table, No. 25, is for comparisons, year by year, with various types of fatal accidents. For underground they are falls, explosions, haulage, electricity, explosives and other causes, 7,698. For shaft they are falling, cage and other causes, 362. For surface they are machinery, railway cars and other causes, 358. The total is 8,418.

TABLE 25—FATAL ACCIDENTS BY YEARS, SHOWING CAUSES AND PLACE WHERE ACCIDENT HAPPENED, 1882-1954

Year	Total number killed	Underground							In shaft				On surface			
		Fall of roof and sides	Gas explosions	Haulage	Electricity	Explosives	Other causes	Total	Falling down shaft	Cages	Other causes	Total	Machinery	Railway cars	Other causes	Total
1882	40	26	-----	-----	-----	5	9	40	-----	-----	-----	-----	-----	-----	-----	-----
1883	134	40	12	2	-----	2	*78	134	-----	-----	-----	-----	-----	-----	-----	-----
1884	46	29	4	-----	-----	6	7	46	-----	-----	-----	-----	-----	-----	-----	-----
1885	39	20	-----	-----	-----	-----	†19	39	-----	-----	-----	-----	-----	-----	-----	-----
1886	52	32	-----	5	-----	10	-----	47	1	4	-----	5	-----	-----	-----	-----
1887	41	28	-----	-----	-----	-----	†13	41	-----	-----	-----	-----	-----	-----	-----	-----
1888	55	33	-----	6	-----	9	-----	48	4	2	-----	6	-----	1	-----	1
1889	42	26	-----	5	-----	3	1	35	2	4	1	7	-----	-----	-----	-----
1890	53	36	5	3	-----	4	-----	48	-----	4	-----	4	-----	1	-----	1
1891	60	33	4	2	-----	11	1	51	1	4	2	7	-----	2	-----	2
1892	57	28	3	6	-----	4	3	44	8	4	-----	12	-----	1	-----	1
1893	69	48	2	2	-----	6	2	60	3	4	1	8	-----	1	-----	1
1894	72	43	-----	6	-----	8	-----	57	5	8	-----	13	-----	2	-----	2
1895	75	38	5	6	-----	12	2	63	5	4	1	10	1	1	-----	2
1896	77	41	2	9	-----	9	2	63	6	5	-----	11	1	1	1	3
1897	69	46	2	1	-----	11	-----	60	6	-----	1	7	1	1	-----	2
1898	75	43	7	3	-----	11	2	66	4	2	-----	6	1	1	1	3
1899	84	51	5	6	-----	6	6	74	4	5	-----	9	-----	1	-----	1
1900	94	51	1	11	-----	20	-----	83	1	4	2	7	2	2	-----	4
1901	99	57	1	14	-----	20	3	95	1	1	-----	2	-----	-----	2	2
1902	99	55	-----	15	-----	17	1	88	7	2	-----	9	-----	2	-----	2
1903	156	77	8	18	1	41	2	147	2	6	-----	8	-----	-----	1	1
1904	157	65	-----	21	1	44	3	134	10	4	-----	14	6	2	1	9
1905	199	80	59	11	1	32	3	186	5	6	1	12	-----	1	-----	1
1906	155	84	2	22	-----	22	1	131	9	5	1	15	3	4	2	9
1907	165	84	4	29	1	25	2	145	6	8	-----	14	-----	4	2	6
1908	183	91	7	35	1	29	1	164	3	1	3	7	4	8	-----	12
1909	213	84	44	30	2	29	1	190	5	4	1	10	3	8	2	13
1910	406	65	20	23	3	17	258	386	3	6	-----	9	3	5	3	11
1911	157	80	8	40	1	10	4	143	5	2	2	9	-----	2	3	5
1912	180	98	3	38	3	13	12	167	6	3	-----	9	-----	2	2	4
1913	175	81	10	50	6	10	5	162	5	4	1	10	-----	2	1	3
1914	159	83	6	40	6	6	7	148	2	1	-----	3	-----	4	4	8
1915	180	57	68	27	2	9	12	175	1	-----	2	3	-----	2	-----	2
1916	165	80	12	43	4	13	1	153	4	-----	-----	4	2	6	-----	8
1917	207	77	19	67	7	12	3	185	-----	4	1	5	5	9	3	17
1918	259	100	27	70	13	20	4	234	8	8	2	18	-----	4	3	7
1919	208	93	31	51	7	12	1	195	4	4	2	10	-----	2	1	3
1920	181	91	7	41	14	9	5	167	8	2	-----	10	1	2	1	4
1921	222	112	6	54	9	20	8	209	2	4	-----	6	1	4	2	7
1922	159	71	15	29	8	17	7	147	2	1	3	6	-----	5	1	6
1923	161	82	2	40	6	13	6	149	3	1	1	5	-----	4	3	7
1924	184	76	40	37	5	10	8	176	2	-----	2	4	2	2	-----	4
1925‡	183	89	5	46	12	11	9	172	1	2	-----	3	3	3	2	8
1926	165	85	13	39	5	7	4	153	7	1	1	9	1	1	1	3
1927	106	44	17	18	5	5	8	97	3	1	-----	4	2	2	1	5
1928	139	72	23	21	2	6	5	129	1	1	-----	2	1	4	3	8
1929	109	52	8	24	5	6	5	100	1	2	-----	3	2	2	2	6
1930	112	72	4	20	3	2	5	106	-----	1	-----	1	1	2	2	5
1931	90	54	2	15	6	2	5	84	-----	4	-----	4	-----	1	1	2
1932	114	33	54	10	-----	4	4	105	-----	-----	-----	-----	-----	4	5	9
1933	71	45	1	12	3	3	3	67	3	-----	-----	3	-----	1	-----	1
1934	86	48	-----	18	5	2	5	78	-----	-----	-----	-----	3	-----	5	8
1935	82	34	1	17	3	3	15	73	2	1	-----	3	1	1	4	6

* Sixty-nine men were drowned in the Braidwood mine disaster.

† Other causes not classified. ‡ From July 1, 1924 to December 31, 1925.

TABLE 25—Concluded.

Year	Total number killed	Underground							In shaft				On surface			
		Fall of roof and sides	Gas explosions	Haulage	Electricity	Explosives	Other causes	Total	Falling down shaft	Cages	Other causes	Total	Machinery	Railway cars	Other causes	Total
1936	93	54	-----	12	1	2	16	85	-----	-----	-----	-----	2	-----	6	8
1937	83	45	2	17	2	-----	9	75	-----	-----	-----	-----	3	-----	5	8
1938	85	41	5	16	1	5	6	74	1	-----	-----	1	1	4	5	10
1939	80	47	-----	20	4	1	3	75	1	-----	-----	1	1	1	2	4
1940	83	45	1	17	2	1	9	75	-----	1	-----	1	1	2	4	7
1941	92	45	11	13	4	8	7	88	1	-----	-----	1	2	1	-----	3
1942	94	47	-----	19	2	3	9	80	-----	-----	-----	-----	-----	-----	14	14
1943	97	47	1	27	2	5	3	85	1	-----	1	2	2	3	5	10
1944	87	57	-----	19	4	2	1	83	-----	-----	1	1	3	-----	-----	3
1945	75	40	-----	15	3	5	-----	63	2	-----	1	3	5	2	2	9
1946	61	31	-----	16	-----	2	7	56	2	-----	-----	2	-----	1	2	3
1947	204	30	141	18	2	1	-----	192	1	-----	-----	1	2	4	5	11
1948	68	40	-----	14	1	1	2	58	1	1	1	3	2	-----	5	7
1949	38	30	-----	-----	-----	-----	4	34	-----	-----	-----	-----	-----	2	2	4
1950	45	24	-----	11	2	1	2	40	-----	-----	-----	-----	1	1	3	5
1951	154	19	119	5	-----	1	3	147	-----	-----	-----	-----	1	2	4	7
1952	31	15	-----	8	2	-----	1	26	-----	-----	-----	-----	-----	1	4	5
1953	28	16	-----	6	-----	-----	1	23	-----	-----	-----	-----	-----	3	2	5
Total	8,418	3,916	859	1,411	182	676	654	7,698	181	146	35	362	76	147	135	358

The next table, No. 26, gives percentage rates for the foregoing causes for the 73-year period. In that period 50.9% of the fatalities have been due to roof, face and rib falls. This is practically the same rate as for the nation.

TABLE 26—SUMMARY OF FATALITIES—NUMBER KILLED UNDERGROUND, IN SHAFT AND ON SURFACE. BY CAUSES, WITH PERCENTAGES OF EACH CAUSE. 1882-1954

Underground			In shaft			On surface		
Cause	Killed	Per cent	Cause	Killed	Per cent	Cause	Killed	Per cent
Falls	3,916	50.9	Fall down shaft	181	50.0	Machinery	76	21.2
Gas explosions	859	11.1	Cages	146	40.3	Railroad cars	147	41.1
Haulage	1,411	18.3	Other causes	35	9.7	Other causes	135	37.7
Electricity	182	2.4						
Explosives	676	8.8						
Other causes	654	8.5						
Total	7,698	100.0	Total	362	100.0	Total	358	100.0

CHANGES IN CORPORATE NAMES 1882 - 1953 INCLUSIVE

Prior to 1902 the mines were not designated as "shipping and local", but were all listed together. It is therefore difficult to make an accurate tracing of the mines opened prior to that date.

Shipping mines are designated as such because they ship their coal by railroad. Local mines are so called because they sell their coal locally and use trucks to haul it from the mine.

In 1912, a list of the shipping mines then in existence was sent to the State Inspectors, with the request that they furnish certain information, including the year the mine was opened and the total tons mined, as nearly as could be estimated.

In some instances, no doubt, the estimate of tons of coal produced is erroneous, but a careful check with the coal reports shows a comparatively close agreement.

These reports, together with the same information about the mines opened since, have been made a matter of record, and from this record data have been compiled concerning each of the mines prior to and including 1953.

The following list is prepared for the purpose of showing by counties the name of the mine at the time the information was received, the change or changes in ownership, by references, the post office of the mine, the year opened, depth of shaft, thickness and geological number of seam.

Changes in corporate names, 1882-1953, inclusive

BOND COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Pocahontas Mining Co.[1]	Pocahontas	1906	400′	7′6″	6

[1] 1930 changed to Bond County Coal Co. 1932 changed to Illinois-Pocahontas Coal Co.

BUREAU COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Cherry Coal Co.[1]	Cherry	1929	321′	4′6″	6
Spring Valley Coal Mining Co. No. 3	Spring Valley	1935	456′	3′6″	2
Pioneer Coal Co.	Sheffield	1941	Strip 30′	4′6″	6
Midland Electric Coal Corp. No. 1	Atkinson	1947	Strip 35′	4′	6

[1] Second vein of St. Paul Coal Co. No. 2.

CHRISTIAN COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Assumption Coal Co.[1]	Assumption	1887	1,004′	7′	1 & 2
Illinois Midland Coal Co.[2]	Kincaid	1912	357′	8′	6
Pana Coal Co. No. 1[3]	Pana	1884	728′	7′6″	6
Pana Coal Co. No. 2	Pana	1906	732′	7′6″	6
Penwell Coal Co.[4]	Pana	1889	730′	7′6″	6
Smith-Lohr Coal Co.[5]	Pana	1906	720′	7′6″	6
Springfield Coal Mining Co. No. 6[6]	Taylorville	1887	495′	8′	6
Stonington Coal Co.[7]	Stonington	1906	460′	7′6″	6
C. W. VanDive Coal Co.[8]	Edinburg	1888	365′	7′	6
Peabody Coal Co. No. 8	Tovey	1913	373′	7′	6
Peabody Coal Co. No. 9	Taylorville	1919	410′	8′	6
Peabody Coal Co. No. 17	Pana	1949	700′	8′	6
Peabody Coal Co. No. 10	Pawnee	1951	357′	7′	6

[1] 1929 changed to Silver Creek Coal Co. 1930 changed to Victory Coal Co.
[2] 1916 changed to Peabody Coal Co. No. 7.
[3] 1946 changed to Old Mine Coal Co.
[4] 1942 changed to Victory Coal Mining Co. 1944 changed to Oldroyd Coal Co.
[5] 1916 changed to Springside Coal Co.
[6] 1924 changed to Peabody Coal Co. No. 58.
[7] 1916 changed to Peabody Coal Co. No. 21.
[8] 1910 changed to Greenwood Coal Co. 1919 changed to Christian County Mining Co. 1926 changed to Quality Coal Co. 1928 changed to H. F. Young Coal Co. 1930 changed to Young and Tex Coal Co.

CLINTON COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Breese Trenton Mining Co. "East"[1]	Breese	1887	400′	7′6″	6
Breese Trenton Mining Co. "Beck"[2]	Beckemeyer	1905	415′	8′	6
North Breese Coal Mining Co.[3]	Breese	1905	400′	7′	6
Southern Coke Coal & Mining Co. No. 9	New Baden	1897	318′	8′	6

[1] 1932 changed to Citizens Coal Co.
[2] 1932 changed to Beckemeyer Coal Co. 1945 changed to Buxton Coal Co. 1946 changed to Pure Coal Co.
[3] 1922 changed to Breese Trenton Mining Co. "North". 1936 changed to Horner Coal Co. 1940 changed to Clinton County Mining Co. 1949 changed to Breese Coal Co., Inc.

FRANKLIN COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Benton Coal Co. No. 1[1]	Benton	1904	620′	10′	6
Big Muddy-Carterville Coal Co.[2]	Royalton	1905	214′	9′6″	6
Carroll & Franklin Coal Co.[3]	Logan	1909	693′	8′	6
Christopher Coal Mining Co. No. 1[4]	Christopher	1913	593′	10′	6
Brazil Block Coal Co. No. 11[5]	West Frankfort	1905	517′	9′6″	6
Brazil Block Coal Co. No. 18[6]	West Frankfort	1907	510′	10′	6
Hart-Williams Coal Co.[7]	Benton	1907	630′	10′	6
Middlefork Coal Mining Co.[8]	Benton	1916	600′	7′8″	6
Modern Coal Co.[9]	Sesser	1918	668′	9′	6
Ohio Valley Mining Co.[10]	West Frankfort	1910	465′	9′3″	6
W. P. Rend Coal Co.[11]	Rend	1907	567′	9′	6
Sesser Coal Co.[12]	Sesser	1907	647′	8′8″	6
Southern Illinois Coal & Coke Co.[13]	Herrin	1908	350′	9′	6
United Coal Mining Co. No. 1[14]	Christopher	1906	500′	9′6″	6
United Coal Mining Co. No. 2[15]	Buckner	1911	458′	9′6″	6
West Frankfort Coal Co.[16]	West Frankfort	1910	450′	9′10″	6
Zeigler Coal Co. No. 1[17]	Zeigler	1904	401′	7′ to 12′	6
Zeigler Dist. Coal Co.[18]	Christopher	1906	517′	9′6″	6
Bell & Zoller Coal & Mining Co. No. 2	Zeigler	1918	301′	9′	6
Franklin County Coal Corp. "Lida B"	Royalton	1948	154′	8′	6
Franklin County Mining Co.[19]	Benton	1918	620′	8′	6
Chicago, Wilmington and Franklin Coal Co., Orient No. 1	Orient	1913	504′	9′6″	6
Chicago, Wilmington and Franklin Coal Co., New Orient	West Frankfort	1923	643′	9′6″	6
Old Ben Coal Corp. No. 9	West Frankfort	1913	470′	9′6″	6
Old Ben Coal Corp. No. 15	West Frankfort	1920	470′	9′6″	6
Valier Coal Co. No. 1[20]	Valier	1918	610′	9′	6
Western Coal & Mining Co. No. 2	Bush	1917	152′	10′6″	6

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[1] 1922 changed to Chicago, Wilmington & Franklin No. 1.

[2] 1916 changed to Franklin Coal & Coke Co. No. 1. 1924 changed to Franklin County Coal Co. No. I.

[3] 1914 changed to Benton District Coal Co. 1916 changed to John A. Logan Coal Co. 1918 changed to Black Star Coal Co.

[4] 1917 changed to Old Ben Coal Corp. No. 10.

[5] 1913 changed to Dering Coal Co. No. 11. 1916 changed to Producers Coal Co. No. 18. 1918 changed to Industrial Coal Co. No. 18. 1928 changed to Peabody Coal Co. No. 18.

[6] 1913 changed to Dering Coal Co. No. 18. 1916 changed to Producers Coal Co. No. 19. 1918 changed to Industrial Coal Co. No. 19. 1928 changed to Peabody Coal Co. No. 19.

[7] 1917 changed to Taylor Mining Co. No. 6. 1917 changed to Benton Coal Co. No. 2. 1922 changed to Chicago, Wilmington and Franklin Coal Co. No. 2.

[8] 1917 changed to U. S. Fuel Co.

[9] 1920 changed to Southern Gem Coal Co. No. 2. 1927 changed to Brewerton Coal Co. No. 22.

[10] 1913 changed to Old Ben Coal Co. No. 8.

[11] 1920 changed to Old Ben Coal Corp. No. 19.

[12] 1922 changed to Old Ben Coal Corp. No. 16.

[13] 1915 changed to Taylor Mining Co. No. 5. 1916 changed to Franklin County Coal Corp. No. 5.

[14] 1917 changed to Old Ben Coal Corp. No. 12.

[15] 1917 changed to Old Ben Coal Corp. No. 14.

[16] 1920 changed to Southern Gem Coal Corp. No. 1. 1927 changed to Brewerton Coal Co. No. 21. 1933 changed to West Frankfort Coal Corp. No. 21. 1935 changed to West Mine Coal Corp. No. 21. 1936 changed to Frankfort Coal Co. No. 21. 1937 changed to Southern Illinois Coal Co. No 21.

[17] 1911 changed to Bell & Zoller Coal Co. No. 1.

[18] 1914 changed to Christopher Coal Mining Co. No. 2. 1917 changed to Old Ben Coal Corp. No. 11.

[19] 1933 changed to Benton Franklin Coal Co. 1934 changed to Franklin Mining Co.

[20] 1952 changed to Old Ben Coal Corp. No. 22.

FULTON COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Canton Coal Co.	Canton	1906	58′	5′	5
United Electric Coal Co. No. 9	Cuba	1924	Strip	4′7″	5
Alden Coal Co. No. 8[1]	Farmington	1915	78′	4′	5
National Coal Mining Co.[2]	Middlegrove	1908	100′	4′4″	5
Truax-Traer Coal Co. No. 1	St. David	1929	Strip	4′6″	5
Alden Coal Co. No. 5[3]	Farmington	1892	170′	4′2″	5
Rawalt Coal Co.	Canton	1919	Drift	5′	5
Putnam Coal Co.	Breeds	1925	Drift	4′6″	5
Midland Electric Coal Co. No. 2	Farmington	1933	Strip	3′8″	6
Blakely Coal Co.	Canton	1924	100′	4′6″	5
Pschirrer & Sons	Canton		90′	4′8″	5
Sunnyside Coal Co.	Cuba	1933	Slope	4′8″	5
Golden Rule Coal Co.	Middlegrove	1890	79′	4′	5
E. A. Reed Coal Co.	Canton	1934	Slope 90′	4′6″	5
Livings & Smith	Peoria	1934	Strip	5′	5
Peterson Coal Co.	Sugarville	1937	Strip	5′	5
Truax-Traer Coal Co. No. 2	Fiatt	1935	Strip	4′6″	5
Pschirrer & Sons No. 2[4]	Canton	1936	152′	4′2″	5
Central States Collieries, Inc. No. 4[5]	Canton	1936	Strip	4′11″	5
United Electric Coal Co. No. 17	Canton	1937	Strip	4′1″	5
Central States Collieries, Inc. No. 6	Cuba	1941	Strip 25′	6′	6
F. C. Morgan Coal Co.	Lewistown	1941	Strip	5′	5
Fairview Collieries, Inc.	Fairview	1942	Strip	4′2″	5
D & D Coal Co.	Canton	1934	Slope 150′	5′	5
Triple "S" Mines No. 1	Cuba	1937	Strip	4′10″	5
Midland Electric Coal Co. No. 3	Farmington	1942	Strip 38′	3′5″	5
Carter Coal & Trucking Co.[6]	Cuba	1948	Strip 30′	5′2″	5
Key Coal Co.	Astoria	1948	Strip	5′	5
Central States Collieries, Inc. No. 2[7]	Cuba	1942	Strip		6
Morgan Mines Inc.	Bryant	1942	Strip	4′6″	5

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[1] 1926 changed to Kickapoo Coal Co. 1927 changed to Dorthel Coal Co. No. 2.
[2] 1926 changed to Hanna City Coal Co. No. 2. 1927 changed to Dorthel Coal Co. No. 3.
[3] 1928 changed to Illinois Coal Co.
[4] 1937 changed to Pschirrer & Sons Coal Co. "Kildee No. 3".
[5] 1944 changed to Little Sister Coal Corp. No. 2.
[6] 1952 changed to Rice Lake Coal Co.
[7] 1944 changed to Little Sister Coal Corp. No. 6.

GALLATIN COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Producers Coal Co.	Equality	1945	Strip 20′	3′	6
Regenhardt & Southern Coal Co. No. 4	Harrisburg	1951	Strip 24′	4′5″	5
Pekin Coal Co. No. 1	Equality	1917	140′	4′8″	5
Gallatin Coal & Coke Co.[1]	Equality	1882	90′	4′10″	5
Mid-City Coal Co.[2]	Junction	1930	100′	4′6″	5

[1] 1924 changed to Equality Coal Co. 1927 changed to Saline Gas Coal Co. No. 4. 1930 changed to Illinois Saline Coal Co. 1945 changed to Equality Coal Co.

[2] 1940 changed to New Shawnee Coal Co. 1943 changed to Gallatin County Coal Co. 1947 changed to B. & W. Coal Co.

GRUNDY COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geogolical number of seam
Leland Coal Co.[1]	Verona	1924	96′	7′	6
Northeastern Illinois Coal Co.	Morris	1936	Strip	2′6″	2
Will County Coal Co.	Braidwood	1936	Strip	2′6″	2
Northwestern Illinois Coal Corp.	Morris	1945	Strip 16′	2′6″	2

[1] 1925 changed to Verona Coal Co. 1926 changed to Sunlight Coal Co. 1931 changed to Wright Bros. Coal Co. 1934 changed to Verona Coal Co. 1939 changed to Verona Coal Mining Co., Inc.

HENRY COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Schuler Coal Mining Co.[1]	Alpha	1922	270′	4′5″	1
Midland Electric Coal Co. No. 1	Atkinson	1929	Strip	2′	2
F. C. Morgan Coal Co.	Geneseo	1941	Strip	3′	1
Alpha Coal Co.	Alpha	1947	Slope 157′	4′6″	1

[1] 1939 changed to Alpha Coal Co. No. 1. 1940 changed to Bugos White Coal Co.

JACKSON COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Muddy Valley Coal Co.[1]	Hallidayboro	1888	165′	8′	6
Peacock Coal Co.[2]	DeSoto	1910	50′	9′	6
DeSoto Peacock Coal Co.	DeSoto	1915	Slope	6′	6
Forsyth Coal Co.[3]	DeSoto	1925	Strip	7′5″	6
Black Servant Coal Co.[4]	Elkville	1924	Strip	5′8″	6
Murphysboro Mining Co.[5]	Ava	1925	80′	4′	2
Union Colliery Co.	Dowell	1918	265′	8′3″	6
Little Muddy Coal Co. No. 1	Hurst	1932	Slope 220′	8′	6
Peacock Coal Co. No. 1[6]	Hurst	1933	Slope	6′	6
Patrick & McCormick[7]	Elkville	1936	128′	8′6″	6
Johns Coal Co. No. 1	Carbondale	1947	Slope 176′	9′	6
Morgan Coal Co.[8]	Sparta	1948	Strip 20′	5′8″	1
Joe Day Coal Co.	Carterville	1949	Strip 15′	6′	1

[1] 1917 changed to Jackson Coal Co.

[2] 1920 changed to Midway Coal Co. 1923 changed to Chicago Fuel Co.

[3] 1928 changed to Truax-Traer Coal Co. No. 2. 1940 changed to Truax-Traer Coal Co. "Burning Star No. 1". 1945 changed to Truax-Traer Coal Co. "Burning Star Strip No. 1, Drift No. 1".

[4] 1928 changed to Truax-Traer Coal Co. No. 1. 1948 changed to Down State Coal Co.

[5] 1929 changed to Spirit of Egypt Coal Co.

[6] 1948 changed to C & M Inc., "Joliana Mine". 1949 changed to R. P. M. Inc., "Joliana".

[7] 1939 changed to Hallidayboro Coal Co. 1951 changed to Joliana Mining Co.

[8] 1949 changed to Gorham Const. Co. 1950 changed to Beveridge & Kloth No. 1. 1951 changed to Downstate Coal Co., Inc.

JEFFERSON COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Illinois Coal Corp. No. 10[1]	Nason	1923	720′	8′5″	6
Chicago, Wilmington & Franklin Coal Co. No. 3	Waltonville	1947	Slope 797′	9′	6

[1] 1938 changed to Consolidated Coal Co., "Jefferson No. 20." 1951 changed to Bell & Zoller Coal & Mining Co. No. 20.

KANKAKEE COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Northern Illinois Coal Corp. No. 14E	Gardner	1950	Strip 35′	3′	7

KNOX COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Galesburg Mining Co. No. 1	Galesburg	1925	110′	4′5″	1
Little John Coal Co. No. 5	Victoria	1936	Strip 37′	3′6″	6
Graham Coal Co.[1]	Maquon	1934	Slope 135′	4′	5
Midland Electric Coal Co. No. 3	Farmington	1942	Strip 38′	3′5″	5
Thermal Coal Co.[2]	Galesburg	1936	180′	4′2″	1

[1] 1936 changed to Little Coal Co.

[2] 1947 changed to Knoxville Mining Co. No. 2.

LASALLE COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Cahill Coal Co.[1]	Peru	1879	260′	3′6″	2
LaSalle County Carbon Coal Co. No. 1	LaSalle	1865	440′	3′6″	2
LaSalle County Carbon Coal Co., L. S.	LaSalle	1856	400′	3′6″	2
LaSalle County Carbon Coal Co., Union[2]	Peru	1871	420′	3′4″	2
Buffalo Rock Coal Co.	Ottawa	1934	Strip 20′	1′10″	2
Wilmington Coal Mines, Inc.	Morris	1935	Strip 25′	2′3″	2
Osage Coal Co. No. 1	Ottawa	1935	Strip 30′	1′10″	2

[1] 1913 changed to Illinois Zinc Co. No. 3. 1938 changed to Peru Deep Vein Coal Co. No. 3. 1946 changed to United Coal Co., "Illinois Zinc No. 3".
[2] 1930 changed to Union Coal Co. 1946 changed to United Coal Co., "Union Mine".

LOGAN COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Latham Coal Co.[1]	Lincoln	1900	280′	5′2″	5

[1] 1921 changed to Sangamon Coal Mining Co. 1922 changed to Brewerton Coal Co. No. 92.

MACON COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Decatur Coal Co. No. 2[1]	Decatur	1884	612′	4′6″	5

[1] 1925 changed to Macon County Coal Co. No. 2.

MACOUPIN COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Consolidated Coal Co. No. 7[1]	Staunton	1886	322′	6′	6
Consolidated Coal Co. No. 14	Staunton	1903	276′	7′	6
Consolidated Coal Co. No. 15[2]	Staunton	1904	364′	8′	6
Madison Coal Corp. No. 5[3]	Mt. Olive	1887	420′	8′	6
Carlinville Mining Co.[4]	Carlinville	1919	250′	7′	6
Gillespie Coal Co.[5]	Gillespie	1920	348′	7′	6
Glenridge Coal Co.[6]	Virden	1893	320′	7′6″	6
Girard Coal Co.[7]	Girard	1867	352′	7′	6
Vivian Colliery Co.[8]	Glenridge	1896	365′	6′6″	6
Perry Coal Co.	Gillespie	1923	386′	9′	6
Carlinville Coal Co.[9]	Carlinville	1885	270′	6′	6
Standard Oil Co. No. 2[10]	Carlinville	1918	319′	7′	6
Superior Coal Co. No. 1	Gillespie	1904	348′	8′	6
Superior Coal Co. No. 2	Gillespie	1904	324′	8′	6
Superior Coal Co. No. 3	Gillespie	1904	350′	8′	6
Superior Coal Co. No. 4	Gillespie	1918	312′	7′5″	6

[1] 1951 changed to Bell & Zoller Coal & Mining Co. No. 7. 1951 Changed to Staunton Mine Seven, Inc.

[2] 1951 changed to Bell & Zoller Coal & Mining Co. No. 15.

[3] 1917 changed to Mt. Olive Coal Co. 1922 changed to Madison Coal Corp. No. 5. 1934 changed to Mt. Olive Coal Co.

[4] 1920 changed to Bartels Coal Co. 1925 changed to South Mine Coal Co. 1937 changed to South Mine Co. 1949 changed to Carlinville Coal Mining Co.

[5] 1941 changed to Perry Coal Co. 1945 changed to Little Dog Coal Co.

[6] 1914 changed to Montour Coal Co. No. 402. 1922 changed to Illinois Coal Corp. No. 3. 1932 changed to Virden Coal Co. 1937 changed to Lincoln Liquidating Co., Inc. 1939 changed to Virden Mining Corp.

[7] 1914 changed to Montour Coal Co. No. 403. 1922 changed to Illinois Coal Corp. No. 4.

[8] 1916 changed to Middlestate Fuel Co. 1922 changed to Union Fuel Co. No. 6.

[9] Changed to Standard Oil Co. No. 1.

[10] 1945 changed to Standard Coal & Mining Converters Corp. No. 2.

MADISON COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
City Coal Co.[1]	Edwardsville	1879	222′	6′	6
Donk Bros. Coal Co. No. 3[2]	Troy	1900	274′	5′	6
Home Trade Coal Co.[3]	Edwardsville	1898	135′	5′	6
Jay Coal Co.[4]	Bethalto	1921	70′	4′6″	6
Bullock Mining Co.[5]	Collinsville	1898	170′	6′6″	6
Bunker Hill Coal Co.	Bunker Hill	1921	200′	6′	6
Collinsville Coal Corp.	Collinsville	1925	100′	7′	6
Donk Bros. Coal Co. No. 4[6]	Edwardsville	1920	207′	6′	6
East Side Coal Co.	Edwardsville	1910	135′	6′	6
Lumaghi Coal Co. No. 2	Collinsville	1901	193′	8′6″	6
Lumaghi Coal Co. No. 3	Collinsville	1903	165′	8′	6
Madison Coal Corp. No. 2	Glen Carbon	1891	110′	6′6″	6
Mt. Olive & Staunton Coal Co. No. 2	Staunton	1904	300′	7′	6
New Staunton Coal Co.[7]	Livingston	1904	287′	6′	6
Stiers Bros. Const. Co.	Moro	1934	Strip	4′6″	6

[1] 1917 changed to Beck-White Coal Co. 1921 changed to New Castle Coal Co. 1925 changed to Henrietta Coal Co., "Henrietta Mine". 1950 changed to Lumaghi Coal Co. No. 4.

[2] 1923 changed to Troy Coal Co. 1932 changed to Chicopee Coal Co. 1944 changed to Troy Domestic Mining Co.

[3] 1917 changed to Madison County Mining Co. 1926 changed to O. L. Winkle Coal Co. 1929 changed to Henrietta Coal Co., "Home Trade".

[4] 1926 changed to Carlin Coal Co.

[5] 1938 changed to Burnwell Coal Co.

[6] 1928 changed to Peabody Coal Co. No. 17. 1932 changed to Madison Coal & Mining Co.

[7] 1933 changed to Livingston-Mt. Olive Coal Co. No. 1.

MARION COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Chicago-Sandoval Coal Co. No. 2[1]	Sandoval	1905	607′	6′	6
Marion County Coal Co.[2]	Centralia	1908	600′	6′	6
Odin Coal Co.	Odin	1886	700′	7′	6

[1] 1924 changed to Franklin County Coal Co. No. 9.

[2] 1940 changed to Marion County Coal & Mining Corp., Inc.

MONTGOMERY COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Burnwell Coal Co. No. 1[1]	Witt	1903	534′	8′	6
Kort Kamp Coal Co.[2]	Hillsboro	1903	470′	7′6″	6
Montgomery Coal Co.[3]	Hillsboro	1907	470′	8′4″	6
Shoal Creek Coal Co.[4]	Panama	1905	386′	7′	6
Nokomis Coal Co.[5]	Nokomis	1913	640′	8′2″	6
Hillsboro Coal Co.[6]	Hillsboro	1887	456′	8′	6
Peabody Coal Co. No. 10[7]	Nokomis	1906	638′	8′6″	6
Freeman Coal Mining Corp	Farmersville	1951	353′	7′6″	6

[1] 1913 changed to Peabody Coal Co. No. 12. 1917 changed to C. & E. I. Coal Corp. No. 12. 1919 changed to Illinois Coal Corp. No. 12. 1921 changed to Indiana & Illinois Coal Corp. No. 12.

[2] 1913 changed to Peabody Coal Co. No. 11. 1916 changed to C. & E. I. Coal Corp. No. 11. 1919 changed to Illinois Coal Corp. No. 11. 1921 changed to Indiana & Illinois Coal Corp. No. 11.

[3] 1913 changed to Peabody Coal Co. No. 15. 1917 changed to C. & E. I. Coal Properties No. 15. 1919 changed to Illinois Coal Properties No. 15. 1921 changed to Indiana & Illinois Coal Corp. No. 15. 1936 changed to Nokomis Coal Co. No. 1.

[4] 1925 changed to Cosgrove-Meehan Coal Co. No. 5.

[5] 1922 changed to Illinois Coal Corp. No. 9.

[6] 1937 changed to Hillsboro Mining Co.

[7] 1916 changed to C. & E. I. Coal Corp. No. 10. 1919 changed to Illinois Coal Properties No. 10. 1921 changed to Indiana & Illinois Coal Corp. No. 10.

MOULTRIE COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Lovington Coal Co.	Lovington	1909	920′	8′	6

PEORIA COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Crescent Coal Co. No. 1[1]	Peoria	1887	Drift	4′6″	5
Applegate & Lewis Coal Co.[2]	Hanna City	1908	250′	4′6″	5
Mapleton Coal Co. No. 1[3]	Mapleton	1907	Drift	4′6″	5
Warsaw Coal Co.[4]	Edwards	1906	Drift	4′6″	5
Newsam Bros. Coal Co. No. 5[5]	Peoria	1920	Slope	4′2″	5
Newsam Bros. Coal Co. No. 6[6]	Peoria	1922	Slope	4′5″	5

[1] 1943 changed to Rock Island Improvement Co. No. 1.

[2] 1913 changed to Logan Coal Co. 1924 changed to Hanna City Coal Co. 1927 changed to Dorthel Coal Co. No. 1.

[3] 1918 changed to Foley Coal Co. 1920 changed to East Mapleton Coal Co.

[4] 1921 changed to Central West Coal Co. No. 3. 1933 changed to Glenwood Mining Co. No. 3. 1937 changed to Central Wet Coal Co. No. 3.

[5] 1924 changed to Crescent Coal Co. No. 5.

[6] 1924 changed to Crescent Coal Co. No. 6.

PERRY COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Bald Eagle Mining Co.[1]	Craig	1904	256′	7′	6
Little Muddy Fuel Co.[2]	Tamaroa	1901	210′	6′	6
Majestic Coal Co.[3]	DuQuoin	1905	403′	9′	6
Ritchie Coal Co.[4]	Pinckneyville	1909	160′	7′6″	6
St. Louis-Coulterville Coal Co.[5]	Coulterville	1901	225′	7′	6
Allen Coal Co.[6]	Cutler	1920	81′	6′	6
Illinois Sixth Vein Coal Co.[7]	Pinckneyville	1919	132′	7′	6
Scott-Smith Coal Co.[8]	DuQuoin	1919	Strip	6′	6
Sopher Coal Co. No. 2[9]	Cutler	1918	110′	5′	6
Bailey Bros. Coal Co.	DuQuoin	1902	75′	5′	6
Gayle Coal Co.[10]	DuQuoin	1925	Strip	6′	6
Pyramid Coal Co.[11]	Pinckneyville	1926	Strip	5′6″	6
Security Coal Mining Co.	DuQuoin	1910	91′	8′	6
Missouri & Illinois Coal Co. No. 4[12]	Willisville	1903	78′	6′	6
Wilson Coal Mining Co.[13]	Cutler	1922	120′	6′	6
United Electric Coal Co. No. 11	DuQuoin	1929	Strip	6′	6
Coal Stripping Co.[14]	Pinckneyville	1931	Strip	5′	6
Victory Coal Mining Co.[15]	Tamaroa	1917	210′	6′	6
Ring Coal Co. No. 1[16]	Cutler	1932	51′	5′6″	6
Conant Coal Co.[17]	Conant	1934	110′	6′6″	6
Talbot Coalery Co.	DuQuoin	1934	Strip	6′	6
Biby Coal Co.[18]	Pinckneyville	1853	85′	7′	6
Black Gold Coal Co.	DuQuoin	1941	65′	6′6″	6
Union Colliery Co.	DuQuoin	1946	75′	7′	6
Ritter Coal Co. No. 2	DuQuoin	1937	Strip 20′	6′6″	6
Truax-Traer Coal Co. No. 2	Pinckneyville	1950	Strip 41′	5′6″	6

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[1] 1916 changed to Crown Coal Co. 1920 changed to Columbia Coal Co. 1928 changed to Delco Mining Co. 1930 changed to Egyptian Coal Co. 1931 changed to Winkle Coal Co.

[2] 1916 changed to Colliery Coal Co. 1921 changed to Aladdin Coal Co. 1922 changed to Tamaroa Little Muddy Coal Co. 1930 changed to Tamaroa Coal Co. 1935 changed to Tamaroa Fuel Co. 1936 changed to Home Coal Co. 1940 changed to Blanchard Coal Co. 1941 changed to Blanchard Coal Corp. No. 43. 1946 changed to Vaughn Coal Co.

[3] 1904 changed to Equitable Coal Co. 1922 changed to Crerar-Clinch Coal Co. No. 14. 1937 changed to Peabody Coal Co. No. 14.

[4] 1921 changed to Southern Gem Coal Co. No. 5. 1927 changed to Brewerton Coal Co. No. 45. 1934 changed to Brair Hill Coal Mining Co. No. 45. 1937 changed to Pinckneyville Mining Co. No. 5.

[5] 1918 changed to Perry Coal Co. 1931 changed to Cutlerville Coal Co.

[6] 1921 changed to Southern Gem Coal Co. No. 7.

[7] 1924 changed to Southern Gem Coal Co. No. 6. 1933 changed to Beacoup Coal Co. No. 6. 1951 changed to Service Coal Co. No. 6.

[8] 1925 changed to Perfection Coal Co.

[9] 1920 changed to Aladdin Coal Co. No. 2. 1924 changed to Southern Gem Coal Co. No. 10. 1925 changed to Chicago Fuel Co. No. 2. 1934 changed to Whip-poor-will Coal & Mining Co. 1938 changed to C. & R. Coal Co. 1942 changed to J. & T. Coal Co. 1944 changed to Whip Coal Co.

[10] 1931 changed to Crerar-Clinch Coal Co. No. 15.

[11] 1952 changed to Truax-Traer Coal Co., "Pyramid".

[12] 1918 changed to Willis Coal & Mining Co. No. 8. 1933 changed to Home Coal Co. No. 8. 1935 changed to Hustler Coal Co.

[13] 1932 changed to Cutler Coal & Mining Co.

[14] 1935 changed to Pyramid Coal Corp. Strip No. 1.

[15] Changed to Aladdin Coal Co. 1931 changed to Collier Coal Co. 1933 changed to Mathis Coal Co. 1934 changed to Imperial Coal Co. 1935 changed to Home Coal & Mining Co. 1936 changed to Muddy River Coal Co. 1937 changed to K & E Coal Co. 1938 changed to Edgar Coal Co. 1940 changed to Muddy Coal Co. 1941 changed to Smith Coal Co.

[16] 1935 changed to New Galem Coal Co.

[17] 1948 changed to Big "5" Coal Co.

[18] 1937 changed to Bird & Tanner. 1938 changed to H. E. Presswood Coal Co.

RANDOLPH COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Bressemer W. C. Co.[1]	Tilton	1902	200′	7′	6
Illinois Fuel Co. No. 4[2]	Sparta	1903	75′	6′	6
West Mine Coal Co.[3]	Cutlerville	1900	198′	6′	6
Jones Bros. Coal Co. No. 2[4]	Marissa	1904	185′	6′6″	6
Moffat Coal Co.	Sparta	1903	125′	6′	6
Willis Coal & Mining Co. No. 6	Percy	1888	86′	6′	6
Willis Coal & Mining Co. No. 9	Percy	1918	42′	6′	6
George Wilson Coal Co.[5]	Sparta	1925	128′	5′6″	6
Willis Coal & Mining Co. No. 7[6]	Sparta		140′	5′8″	6
Crain, Hatcher & Welshan[7]	Percy	1923	40′	6′	6
Southwestern Illinois Coal Corp	Percy	1936	Strip 38′	6′	6
St. Louis-Coulterville Coal Co.[8]	Coulterville	1904	287′	6′6″	6
Moffat Coal Co. No. 2	Sparta	1939	88′	6′2″	6
Midwest Utilities Corp	Sparta	1952	203′	6′6″	6
Ritter Coal Co. No. 3	Sparta	1952	Strip	6′	6

[1] 1917 changed to Tilton Coal Co. 1918 changed to Madison Coal Corp.
[2] 1925 changed to Wall Coal Co. 1928 changed to Sparta Coal Co.
[3] 1920 changed to St. Louis Coal Co. 1940 changed to Florida Coal Co. 1946 changed to Sparta Coal Co.
[4] 1937 changed to Oregon Coal Co. 1943 changed to Randolph Coal Co. No. 1. 1946 changed to Randolph Coal Corp. No. 2.
[5] 1932 changed to Illmo Coal Co. 1941 changed to Gulf, Mobile & Ohio Railroad Coal Mines.
[6] 1935 changed to Gulf Fuel & Mining Co.
[7] changed to Crain Coal Co.
[8] changed to Perry Coal Co. 1936 changed to Cutlerville Coal Co.

SALINE COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Saline County Coal Co. No. 2[1]	Harrisburg	1906	100′	7′	5
Saline County Coal Co. No. 3[2]	Harrisburg	1911	275′	7′	5
Harrisburg Southern Coal Co.[3]	Eldorado	1905	337′	5′6″	5
Harrisburg Coal Co.[4]	Harrisburg	1917	416′	5′6″	5
J. K. Dering Coal Co. No. 2[5]	Eldorado	1918	456′	6′	5
Dodds Coal Co.	Carrier Mills	1919	41′	5′	5
O'Gara Coal Co. No. 1[6]	Harrisburg	1905	311′	5′3″	5
O'Gara Coal Co. No. 3[7]	Harrisburg	1904	233′	6′3″	5
O'Gara Coal Co. No. 8	Harrisburg	1904	393′	4′8″	5
O'Gara Coal Co. No. 10[8]	Harrisburg	1904	406′	4′8″	5
Harrisburg B. M. Co. No. 12[9]	Harrisburg	1904	415′	5′	5
Harrisburg Colliery Co. No. 15[10]	Harrisburg	1909	58′	5′	5
Rhonda Coal Co.	Harrisburg	1923	Slope	5′	5
Saline Valley Coal Co.	Harco	1918	Slope	6′5″	5
Watson Coal Co. No. 1	Harrisburg	1907	320′	5′6″	5
Watson Coal Co. No. 2[11]	Harrisburg	1916	Slope	4′6″	5
Harrisburg Mining Co. No. 8	Harrisburg	1927	Strip	6′	5
Harrisburg Mining Co. No. 9	Harrisburg	1927	Slope	5′	5
Big Creek Coal Co. No. 4	Harrisburg	1921	260′	6′5″	5
Blue Bird Coal Co. No. 5	Harrisburg	1929	Strip	5′	5
Blue Bird Coal Co. No. 6	Harrisburg	1936	Slope 110′	4′8″	5
Bankston Creek Colleries No. 6[12]	Carrier Mills	1936	Strip 60′	5′	6
Bankston Creek Colleries No. 5[13]	Carrier Mills	1936	Slope 135′	4′8″	5
Bankston Creek Collieries No. 4	Harrisburg	1939	Slope 80′	5′	5
Bankston Creek Collieries No. 16[14]	Harrisburg	1940	Slope 200′	6′	5
Indian Head Coal Co.	Harrisburg	1936	Strip	4′6″	5
The New Coal Co.	Harrisburg	1943	Slope 50′	6′	5
Bankston Creek Collieries No. 7[15]	Harrisburg	1944	Slope 305′	6′1″	5
Russell Coal Co. No. 1	Carrier Mills	1946	Slope 40′	5′	5
Cottage Grove Coal Co.	Harrisburg	1947	Strip 30′	4′6″	6
Bankston Creek Collieries No. 2	Harrisburg	1947	Strip 35′	4′10″	5
Earl Scroggins Mines No. 1[16]	Equality	1936	Slope 20′	4′8″	5
Peabody Coal Co. No. 40	Galatia	1949	Slope 325′	4′2″	5
Saxton Coal Corp.	Carrier Mills	1953	Strip 35′	3′6″	2

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[1] 1920 changed to Big Creek Coal Corp. No. 2. 1924 changed to Saline County Coal Corp. No. 42. 1929 changed to Peabody Coal Co. No. 42.

[2] 1920 changed to Big Creek Coal Corp. No. 3. 1924 changed to Saline County Coal Corp. No. 43. 1929 changed to Peabody Coal Co. No. 43.

[3] 1913 changed to Big Creek Coal Corp. No. 1. 1924 changed to Saline County Coal Corp. No. 46. 1929 changed to Peabody Coal Co. No. 46.

[4] 1924 changed to Saline County Coal Corp. No. 47. 1929 changed to Peabody Coal Co. 47.

[5] 1930 changed to Franklin County Coal Co. No. 10. 1931 changed to Rex Coal Co. No. 2. 1940 changed to Dering Coal Co. No. 2. 1952 changed to Eldorado Coal Corp.

[6] 1933 changed to Sahara Coal Co. No. 1.

[7] 1933 changed to Sahara Coal Co. No. 3.

[8] 1933 changed to Sahara Coal Co. No. 10.

[9] 1912 changed to O'Gara Coal Co. No. 12. 1934 changed to Sahara Coal Co. No. 12.

[10] 1912 changed to O'Gara Coal Co. No. 15. 1934 changed to Sahara Coal Co. No. 15.

[11] 1935 changed to Watson Coal Co., "A". 1945 changed to Producers Coal Co.

[12] 1951 changed to Sahara Coal Co. No. 6.

[13] 1951 changed to Sahara Coal Co. No. 5.

[14] 1951 changed to Sahara Coal Co. No. 16.

[15] 1951 changed to Sahara Coal Co. No. 7.

[16] 1937 changed to Jess. F. Stunson. 1939 changed to Robert & Davis. 1940 changed to Earl Scroggins No. 1. 1940 changed to Silas Moore Coal Co. No. 5. 1945 changed to Equality Coal Co. 1947 changed to Rocky Branch Coal Co.

SANGAMON COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geogolical number of seam
Auburn & Alton Coal Co.[1]	Auburn	1878	270′	8′	6
Bissell Coal Co.[2]	Springfield	1919	240′	5′6″	6
Black Diamond Coal Co.[3]	Auburn	1904	302′	8′	6
Capital Coal Co.[4]	Springfield	1891	240′	5′10″	5
Citizens Coal Mining Co., "A"[5]	Springfield	1894	202′	6′	5
Citizens Coal Mining Co., "B"[6]	Springfield	1898	210′	6′	5
Cora Coal Co.[7]	Springfield	1905	200′	5′10″	5
Dickerson Coal Co.[8]	Springfield	1882	230′	6′	5
Illinois Midland Coal Co. No. 6[9]	Sherman	1903	204′	6′	5
Jones & Adams Coal Co.[10]	Springfield	1905	230′	6′	5
Lifton Coal Co.[11]	Auburn	1893	270′	8′	6
O'Gara Coal Co.[12]	Springfield	1901	250′	5′9″	5
Springfield Coal Mining Co. No. 2[13]	Riverton	1893	230′	5′9″	5
Woodside Coal Co.[14]	Springfield	1884	240′	5′6″	5
Springfield Coal Mining Co. No. 5[15]	Springfield	1885	250′	5′9″	5
Springfield Co-op Coal Co.[16]	Springfield	1875	250′	5′8″	5
Tuxhorn Coal Co.[17]	Springfield	1904	250′	5′10″	5
Williamsville Coal Co.[18]	Springfield	1893	260′	5′8″	5
Chicago, Wilmington & Franklin Coal Co. No. 1	Thayer	1900	300′	8′	6
Madison Coal Corp. No. 6	Divernon	1900	335′	7′11″	6
Panther Creek Coal Co. No. 1	Auburn	1918	270′	7′6″	6
Sangamon Coal Co. No. 2	Springfield	1880	265′	6′	5
Spring Creek Coal Co.[19]	Springfield	1905	177′	6′	5
West End Coal Co.[20]	Springfield	1871	210′	6′	5
Lincoln Park Coal & Brick Co.[21]	Springfield	1900	200′	5′	5

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[1] 1920 changed to Union Fuel Co. No. 3.

[2] 1924 changed to Utility Coal Corp.

[3] 1916 changed to Springfield District Coal Co. No. 54. 1925 changed to Peabody Coal Co. No. 54.

[4] 1916 changed to Springfield District Coal Co. No. 57. 1925 changed to Peabody Coal Co. No. 57.

[5] 1924 changed to Central Illinois Coal Co., "A". 1941 changed to Mine B. Coal Co., "A".

[6] 1923 changed to Buckley Coal Co. 1928 changed to Mine B Coal Co., "B".

[7] 1916 changed to Springfield District Coal Co. No. 51. 1925 changed to Peabody Coal Co. No. 51.

[8] 1913 changed to Montour Coal Co. No. 400. 1919 changed to Pittsburg Coal Co. No. 400. 1921 changed to Illinois Coal Corp. No. 1. 1928 changed to Lincoln Coal Corp.

[9] 1913 changed to Peabody Coal Co. No. 6.

[10] 1919 changed to Peerless Coal Co. 1929 changed to Peabody Coal Co. No. 59.

[11] 1921 changed to Illinois Coal Corp. No. 2.

[12] 1913 changed to Middle State Coal Co. No. 26. 1918 changed to Sangamon County Coal Co. 1919 changed to Brewerton Coal Co. No. 81. 1933 changed to Jefferson Coal Mining Co. No. 81. 1935 changed to Middle State Coal Co. No. 81. 1937 changed to Brewerton Coal Co.

[13] 1919 changed to Springfield District Coal Co. No. 52. 1925 changed to Peabody Coal Co. No. 52.

[14] 1916 changed to Springfield District Coal Co. No. 53. 1925 changed to Peabody Coal Co. No. 53.

[15] 1919 changed to Springfield District Coal Co. No. 55. 1925 changed to Peabody Coal Co. No. 55.

[16] 1925 changed to New North Coal Co. 1929 changed to Panther Creek Coal Co. No. 5.

[17] 1920 changed to Union Fuel Co. No. 2.

[18] 1920 changed to Union Fuel Co. No. 3.

[19] 1927 changed to Panther Creek Coal Co. No. 3.

[20] 1927 changed to Panther Creek Coal Co. No. 4.

[21] 1926 changed to Panther Creek Coal Co. No. 2.

SCHUYLER COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Schuyler Coal Corp. No. 1[1]	Rushville	1940	Strip 30′	4′8″	5
Schuyler Coal Corp. No. 2	Rushville	1941	Strip 30′	4′8″	5

[1] 1944 changed to Schuyler Coal Co. No. 3. 1945 taken over by United Electric Coal Co. and operated as Solar Coal Co. No. 3. 1947 changed to Solar Coal Co. No. 1. 1948 changed to Solar Mining Co. No. 1.

SHELBY COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Moweaqua Coal Co.[1]	Moweaqua	1890	620′	5′3″	5

[1] 1934 changed to Erie Sootless Coal Co.

ST. CLAIR COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Cluly-Miller Coal Co.[1]	O'Fallon	1884	180′	7′	6
Glendale Coal Co.[2]	Belleville	1869	120′	6′6″	6
Jack Ruri Coal Co.[3]	Freeburg	1917	130′	6′6″	6
Johnson Coal Co.[4]	Marissa	1888	120′	7′	6
Meeks Coal Co.[5]	Marissa	1904	170′	6′	6
New Marissa Coal Co.[6]	Marissa	1920	110′	7′	6
Peoples Coal Co.[7]	Lebanon	1903	200′	5′6″	6
Radium Coal Co.[8]	Belleville	1915	50′	6′1″	6
Reeb Bros. Coal Co.[9]	Belleville	1896	60′	6′6″	6
Superior Coal Co.[10]	Belleville	1905	180′	6′	6
Taylor Coal Co., "Taylor"[11]	O'Fallon	1890	212′	7′	6

ST. CLAIR COUNTY—Concluded

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Taylor Coal Co., "St. Ellen"[12]	O'Fallon	1903	210'	7'	6
Wilharmel Coal Co.[13]	Belleville	1881	138'	6'	6
B. B. Coal Co.	Belleville	1918	180'	7'6"	6
Consolidated Coal Co. No. 17	Collinsville	1905	226'	6'	6
Eldnar Coal Co.	Belleville	1911	110'	6'3"	6
Ell-Rich Mining Co.[14]	Rentchler	1918	110'	6'5"	6
Fullerton Coal Co.	Belleville	1891	140'	6'3"	6
Golden Rule Coal Co.	Lenzburg	1911	50'	6'	6
Groom Coal Co.	Belleville	1894	90'	7'	6
Gundlach Coal Co.[15]	East St. Louis	1914	Drift	6'3"	6
Guest Coal Co.	Belleville	1917	185'	6'6"	6
Jones Bros. Coal Co. No. 1	Marissa	1898	90'	7'	6
Kolb Coal Co. No. 1	Mascoutah	1895	164'	7'	6
Kolb Coal Co. No. 2[16]	Mascoutah	1912	160'	7'	6
Kolb Coal Co., "Vinegar Hill"[17]	Mascoutah	1901	90'	6'5"	6
Mulberry Hill Coal Co.	Freeburg	1906	150'	7'	6
New National Coal Co.[18]	Belleville	1911	55'	6'	6
International Coal Co., "Carbon"[19]	O'Fallon	1851	195'	7'	6
Quality Coal Co.[20]	Belleville	1917	180'	6'6"	6
St. Louis & O'Fallon Coal Co. No. 1	East St. Louis	1899	100'	6'3"	6
St. Louis & O'Fallon Coal Co. No. 2	East St. Louis	1904	210'	6'5"	6
Southern Coal, Coke & Mining Co. No. 6[21]	Belleville	1897	180'	6'	6
Southern Coal, Coke & Mining Co. No. 8	Belleville	1902	200'	6'	6
Solar Coal Co.[22]	Freeburg	1925	Strip	7'	6
Southern Coal, Coke & Mining Co. No. 7[23]	Belleville	1904	150'	7'6"	6
Southern Coal, Coke & Mining Co. No. 1	Belleville	1888	180'	7'	6
Summit Coal Mining Co.	Belleville	1890	140'	6'3"	6
Prairie Coal Co.[24]	O'Fallon	1896	216'	6'3"	6
Lou-Nash Coal Co. No. 1[25]	Rentchler	1881	130'	6'6"	6
Naurt & Co.[26]	Lenzburg	1889	98'	6'	6
F. C. Morgan Coal Co. No. 2	Millstadt	1934	Strip	6'	6
F. C. Morgan Coal Co. No. 1	Millstadt	1933	Strip	6'	6
West Side Coal Co.[27]	Marissa	1933	96'	6'6"	6
Belle Valley Coal Co.	Belleville	1938	Slope 60'	6'10"	6
Mid-Continent Coal Corp.	Marissa	1948	Slope 77'	7'	6
Seminole Coal Corp. No. 17	Lenzburg	1948	Strip 38'	6'2"	6
Morgan Mines, Inc.	Millstadt	1948	Strip 32'	5'6"	6

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[1] 1916 changed to H. E. Miller Coal Co.

[2] 1926 changed to Reichert Coal Co. 1930 changed to Power Coal Co. 1933 changed to Freeburg Coal Co. 1940 changed to Paramount Coal & Coke Co. 1942 changed to Paramount Fuel.

[3] 1921 changed to Free Bell Coal Co. 1925 changed to Lou-Nash Coal Co. No. 2.

(Continued on next page)

[4] 1914 changed to Victoria Coal Co. 1918 changed to Egyptian Coal Co., "O. K.". 1931 changed to Okay Coal Mining Co. 1937 changed to Marissa Coal Co 1942 changed to Smith Coal Co , "O. K.". 1947 changed to Marissa Coal Co., Inc., "Okay".

[5] 1913 changed to Egyptian Coal Co., "Meek".

[6] 1923 changed to Lyle Coal Co. 1932 changed to Gill Coal Co.

[7] 1926 changed to Mowe & Chapple Coal Co. 1928 changed to Caseyville Coal Co. 1932 changed to Sargent Coal Co. 1933 changed to Devil's Hole Coal Co. 1934 changed to Hippard Coal Co. No. 2. 1936 changed to White Ash Coal Co.

[8] 1921 changed to Aluminum Ore Co. 1930 changed to Alco Ore Co.

[9] 1916 changed to Lattman-Reeb Coal Co. 1923 changed to Perry Coal Co., "S. B.". 1927 changed to Hippard Coal Co. No. 1.

[10] 1922 changed to Perry Coal Co., "Superior".

[11] 1916 changed to International Coal Co. 1920 changed to West Virginia Coal Co. 1922 changed to Perry Coal Co., "Taylor".

[12] 1916 changed to Fisher Coal Co. 1917 changed to St. Ellen Coal Co. 1922 changed to Perry Coal Co., "St. Ellen".

[13] 1913 changed to White Coal Co. 1922 changed to Kolb Coal Co. No. 5. 1928 changed to Service Coal Co. 1938 changed to Service Coal & Mining Co.

[14] 1931 changed to White Coal Co. 1940 changed to Washed Coal Co.

[15] 1942 changed to Pyramid Coal Corp. No. 4.

[16] 1937 changed to Mascoutah Coal & Mining Co. 1941 changed to Home Coal Co.

[17] 1929 changed to Vinegar Hill Coal Co. 1946 changed to Okaw Coal Co.

[18] 1952 changed to South Side Coal & Mining Co.

[19] 1920 changed to West Virginia Coal Co. 1922 changed to Perry Coal Co., "Carbon".

[20] 1938 changed to Dewey Coal & Mining Co.

[21] 1939 changed to North Side Coal Co.

[22] 1927 changed to United Electric Coal Co. No. 13.

[23] 1940 changed to St. Clair Southern Coal Co. 1943 changed to Mascoutah Coal & Mining Co. 1945 changed to Little Oak Coal Co. 1947 changed to Oak Coal Co.

[24] 1942 changed to Prairie Mining Corp.

[25] 1930 changed to Piazza & Marfia Coal Co. 1931 changed to Enterprise Coal & Mining Co., "Int". 1932 changed to Piazza Coal Co. 1933 changed to Rentchler Coal & Mining Co.

[26] 1930 changed to Lenzburg Coal Co. 1942 changed to Smith Coal Co. No. 83, "A-Kay". 1947 changed to Senior Hill Coal Co.

[27] 1939 changed to West Side Cooperative Coal Co. 1939 changed to Prairie State Coal Co. 1947 changed to Prairie State Coal & Mining Co. 1949 changed to New West Side Coal Co., Inc.

TAZEWELL COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Lake Erie Mining Co.	East Peoria	1902	100′	4′6″	5
Groveland Coal Co. No. 2[1]	Pekin	1918	165′	4′2″	5
Ubben Coal Co.	Pekin	1903	100′	4′	5

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[1] 1925 changed to Crescent Coal Co. No. 2.

VERMILION COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Bunsen Coal Co.[1]	Georgetown	1916	200′	6′6″	6
Bunsen Coal Co.[2]	Westville	1906	180′	7′2″	6
United Electric Coal Co. No. 1	Danville	1910	Strip	5′	7
McComb Coal Co.[3]	Danville	1924	Slope	6′6″	7
Dering Coal Co. No. 4[4]	Danville	1904	217′	5′8″	6
Taylor-English Coal Co. No. 2	Catlin	1918	186′	5′4″	7
United Electric Coal Co. No. 14	Danville	1927	Drift	5′10″	7
United Electric Coal Co. No. 12	Danville	----------	Strip	5′10″	7
Coal Stripping Co. No. 2[5]	Danville	1934	Strip	6′	6
Oakwood Coal Co.	Oakwood	1933	Slope 250′	5′	7
F. C. Morgan Coal Co.	Danville	1935	Strip 16′	5′	7
J. G. Skeleton Coal Co.	Danville	1935	Slope 45′	5′6″	7
Grape Creek Mining Co.	Danville	1939	Strip 40′	5′6″	7
Pichon Coal Co.[6]	Danville	1932	Slope 185′	3′8″	7
Dixon Block Coal Co. No. 2	Danville	1944	Strip 20′	6′	7
Dixon Block Coal Co., "Walnut Grove"	Fairmount	1946	Strip 30′	6′	7
Cherokee Mines	Danville	1947	Strip 20′	5′8″	7
Fairview Collieries Corp., "Harmattan"	Danville	1949	Strip 70′	6′	7
V-Day Coal Co.	Danville	1945	Slope 308′	7′	6

[1] 1917 changed to United States Fuel Co., "Bun". 1941 changed to United States Coal & Coke Co.
[2] 1917 changed to United States Fuel Co., "Verm".
[3] 1930 changed to Taylor-English Coal Co. No. 3. 1931 changed to Tilton Mining Co. No. 1.
[4] 1917 changed to Peabody Coal Co. No. 24. 1944 changed to Chicago Harrisburg Coal Co. No. 24.
[5] 1935 changed to Pyramid Coal Corp. No. 2.
[6] 1941 changed to Tilton Mining Co. No. 2.

WASHINGTON COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Nicholson Coal Mining Co.[1]	Nashville	1880	620′	5′6″	6
Centralia Coal Co. No. 5[2]	Centralia	1909	586′	6′6″	6
G. W. Brown & Co.[3]	Dubois	1865	300′	6′	6

[1] 1917 changed to Nashville Mining Co. 1923 changed to Clarkson Coal Mining Co.
[2] 1947 changed to Peabody Coal Co. No. 21.
[3] 1888 changed to Dubois County Coal Co. 1890 changed to Kuhn & Schwind. 1908 changed to Kuhn Colliery No. 1. 1934 changed to Bois Coal Co.

WHITE COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Norris City Coal Co.[1]	Norris City	1905	640′	5′	6

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[1] 1916 changed to White County Mining Co. 1925 changed to Interstate Fuel & Power. 1926 changed to Firebrand Fuel Co. 1929 changed to Josh Anderson Coal Co. 1930 changed to Firebrand Fuel Co. No. 1. 1932 changed to Southern Illinois Coal Mining Co. No. 1. 1934 changed to Norris City Coal Mining Co. No. 1. 1938 changed to White County Coal Co. 1938 changed to Deep Vein No. 6 Coal Co. 1939 changed to H & H Coal Co. 1940 changed to More Heat Coal Co.

WILL COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Northern Illinois Coal Corp., 14W	Wilmington	1927	Strip 35′	3′2″	2
Will County Coal Co.	Braidwood	1935	Strip	2′6″	2
Wilmington Coal Mining Corp. No. 1	Braidwood	1940	Strip 75′	3′6″	2

WILLIAMSON COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Big Muddy Coal & Iron Co. No. 7[1]	Herrin	1901	140′	9′3″	6
Big Muddy Coal & Iron Co. No. 8[2]	Clifford	1905	160′	9′	6
Big Muddy Coal & Iron Co., "Lake Creek"[3]	Johnston City	1908	240′	9′	6
Carterville Big Muddy Coal Co. No. 2[4]	Herrin	1918	Slope	7′5″	6
Carterville-Herrin Coal Co.[5]	Herrin	1902	100′	8′	6
Chicago-Carterville Coal Co., "A"[6]	Herrin	1897	120′	9′	6
Earnest Coal Co. No. 1[7]	Johnston City	1916	225′	8′	6
Johnston City Big Muddy Coal Co. No. 1[8]	Johnston City	1918	300′	8′	6
Johnston City Big Muddy Coal Co. No. 2[9]	Johnston City	1918	261′	8′7″	6
Keystone Big Muddy Coal Co.[10]	Marion	1908	250′	7′	6
Marion-Pittsburg Coal Co. No. 2[11]	Pittsburg	1917	225′	6′7″	6

WILLIAMSON COUNTY—Continued

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Pond Creek Coal Co.[12]	Herrin	1909	240′	9′	6
W. P. Rend Coal Co.[13]	Herrin	1908	115′	9′2″	6
Sanford Coal Co.[14]	Pittsburg	1921	225′	6′	6
Standard Colleries Mining Co.[15]	Johnston City	1905	150′	9′	6
Watson Coal Co. No. 2[16]	Herrin	1903	50′	9′	6
Wilco Mining Co.[17]	Herrin	1924	110′	4′	5
Big Muddy Fuel Co.[18]	Johnston City	1900	120′	7′5″	6
Cambria Coal Mining Co.[19]	Cambria	1926	Slope	4′	5
Carbon Fuel Co.[20]	Marion	1918	Slope	6′	6
Federal Coal Co.[21]	Carterville	1917	100′	9′5″	6
Madison Coal Corp. No. 9	Dewmaine	1903	110′	8′	6
Madison Coal Corp. No. 12	Carterville	1921	104′	7′5″	6
McLaren Coal Co. No. 1[22]	Carterville	1926	Slope	9′	6
St. Louis Coal & Iron Co. No. 2	Johnston City	1920	100′	7′	6
Tregoning Coal Co	Carterville	1928	Slope	8′6″	6
Coal Stripping Co	Marion	1928	Strip	6′6″	6
Orchard Coal Co.[23]	Marion	1918	165′	6′	6
Henderson-Wallace Coal Co.[24]	Marion	1926	Slope	6′5″	6
Wallace Coal Co	Marion	1930	Slope	6′	6
Spillerton Mining Co	Marion	1929	100′	4′	5
Carterville Coal Mining Co. No. 1	Carterville	1931	Strip	8′	6
McCluskey-Pendley & Wilkerson[25]	Marion	1931	Slope 60′	4′2″	5
Carterville Peacock Coal Co	Carterville	1932	Strip	7′6″	6
New Watson Coal Co. No. 1	Herrin	1933	Slope 59′	8′	6
Carterville Mining & Engineering Co	Cambria	1934	Strip	6′11″	6
Forsyth-Carterville Coal Co	Carterville	1934	Strip	9′	6
Rodney Coal Co	Herrin	1934	Drift	7′	6
Delta Coal Mining Co.[26]	Marion	1935	Strip	4′2″	5
Jefferies Coal Co. No. 1	Herrin	1935	Drift	9′	6
Diamond Coal Co. No. 2	Herrin	1936	Strip 50′	7′	6
Jefferies Coal Co. No. 2	Carterville	1936	Drift	9′	6
Jefferies Coal Co. No. 3	Carterville	1936	Drift	9′	6
McClaren Coal Co. No. 2	Carterville	1936	Drift	9′	6
Southern Jewel Coal Co	Marion	1936	Slope	4′	5
Consolidated Coal Co., "Buckhorn"	Herrin	1938	Slope 191′	8′	6
Diamond Coal Co. No. 3	Herrin	1938	Slope 60′	9′	6
Cox Coal Co	Marion	1939	Strip 30′	8′	6
Logan-Illich Coal Co.[27]	Herrin	1944	Slope 90′	4′	5
Wilkins-Briggs Coal Co.[28]	Marion	1943	Slope 130′	9′	6
Turner Coal Corp. No. 1[29]	Harrisburg	1944	Slope 72′	4′6″	5
Fretto Construction Co	Marion	1944	Strip 30′	5′4″	6
Down State Coal Co	Marion	1946	Strip 30′	4′8″	6

WILLIAMSON COUNTY—Concluded

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Forsyth-Williamson Coal Co.	Carterville	1946	Strip 40′	3′2″	5
Blue Bird Coal Co. No. 7	Harrisburg	1946	Slope 184′	4′10″	5
Producers Coal Co.	Carrier Mills	1946	Strip 30′	4′	5
Ragenhardt & Southern Construction Co.	Harrisburg	1947	Strip 28′	4′10″	6
Morgan Mines, Inc.	Herrin	1947	Strip 30′	8′	6
Barchrist Mining Co.[30]	Harrisburg	1948	Strip 20′	4′	6
Bell & Zoller Coal & Mining Co. No. 3	Zeigler	1947	Slope 169′	9′	6
Freeburn Mining Co. No. 3	Marion	1947	216′	8′6″	6
Carmac Coal Co.	Marion	1948	Slope 90′	4′4″	5
Blue Bird Coal Co. No. 8	Harrisburg	1948	Slope 175′	4′2″	5
C. H. Rumburg Coal Co.	Fairfield	1940	Strip 25′	6′	6
Freeman Coal Mining Corp. No. 4	Marion	1951	Slope 260′	7′	6
Stonefort Corp., "Will Scarlet"	Stonefort	1953	Strip 25′	3′2″	1

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[1] 1921 changed to Consolidated Coal Co. No. 7. 1937 changed to Consolidated Coal Co., "New Monarch".

[2] 1921 changed to Consolidated Coal Co. No. 8.

[3] 1921 changed to Consolidated Coal Co., "Lake Creek". 1950 changed to Consolidated Coal Co., Buckhorn No. 2. 1951 changed to Bell & Zoller Coal & Mining Co., Buckhorn No. 2.

[4] 1925 changed to City Lake Coal Co.

[5] 1916 changed to Pratt Bros. Coal Co. 1929 changed to Carterville Herrin Coal Co. 1933 changed to Seymour Coal Co.

[6] 1918 changed to Chicago, Wilmington & Franklin Coal Co., "A".

[7] 1923 changed to Cosgrove-Meehan Coal Co. No. 1. 1934 changed to Franko Mining Corp. No. 1.

[8] 1920 changed to Old Ben Coal Corp. No. 17.

[9] 1920 changed to Old Ben Coal Corp. No. 18.

[10] 1918 changed to Cameron Coal Co. 1925 changed to Wall Coal Co. 1928 changed to Cameron Coal Co. 1929 changed to Illinois High Grade Coal Co.

[11] 1922 changed to Earnest Coal Co. No. 2. 1923 changed to Cosgrove-Meehan Coal Co. No. 2.

[12] 1919 changed to Freeman Coal Co.

[13] 1921 changed to Old Ben Coal Corp. No. 20.

[14] 1923 changed to Cosgrove-Meehan Coal Co. No. 3.

[15] 1916 changed to Searls Coal Co. 1923 changed to Crerar-Clinch Coal Co.

[16] 1919 changed to Ridge Coal Co. 1922 changed to Sincerity Coal Co. 1928 changed to La Clede Coal Co. 1930 changed to Skaggs Coal Co.

[17] 1926 changed to Puritan Coal Co.

[18] 1921 changed to Big Muddy Coal Co. 1928 changed to Peabody Coal Co. No. 26.

[19] 1929 changed to Ogmore Coal Co. 1933 changed to Sunrise Coal Co.

[20] 1935 changed to Diamond Coal Co. No. 1.

[21] 1928 changed to Peabody Coal Co. No. 25.

[22] 1946 changed to P. R. S., Inc.

[23] 1929 changed to Ohio Valley Coal Co. 1933 changed to Blue Hill Coal Co. 1937 changed to Marvel Coal Co. 1939 changed to M & S Coal Co. 1943 changed to Blue Hill Coal Co. 1951 changed to Blaine Coal Co.

[24] 1932 changed to Grissom Coal Co. 1933 changed to McWherter Coal Co. 1934 changed to Old Bruce Coal Co.

[25] 1932 changed to Pendley-Wilkerson Coal Co.

[26] 1946 changed to Delta Collieries Corp.

[27] 1947 changed to Diamond Coal Co. No. 2.

[28] 1947 changed to Schull & Moake Coal Corp.

[29] 1949 changed to Little Creek Coal Co. No. 1.

[30] 1948 changed to Producers Mining Co.

WOODFORD COUNTY

Name of operator	Post office of mine	Year opened	Depth of shaft	Thickness of seam	Geological number of seam
Roanoke Coal Co.[1]	Roanoke	1884	480′	2′6″	2
Minonk Coal Co.[2]	Minonk	1898	565′	2′6″	2

[1] 1925 changed to T. J. Barron Coal Co. 1929 changed to Roanoke Coal & Tile Co.

[2] 1925 changed to W. G. Sutton Coal Co.

The foregoing records have been utilized in formulating the following lists. The data are divided into four divisions and show in the first column the name of the operator at the time the information was obtained; in the second, the name at the present time, and, in the third, the year mine was opened.

The four divisions are:

1. Mines opened prior to 1883.
2. Mines opened from 1883 to 1911.
3. Mines opened from 1912 to 1931.
4. Mines opened from 1931 to 1954.

MINES OPENED PRIOR TO 1883

Name in 1911	Present name	County in which mine is located	Year opened
Gallatin C. & C. Co	Ill. Saline C. Co	Gallatin	1882
Cahill Coal Co	Ill. Zinc Co., No. 3	LaSalle	1879
LaSalle Co. C. C. Co., No. 1	LaSalle Co. C. C. Co., No. 1	LaSalle	1865
LaSalle Co. C. C. Co., L. S	LaSalle Co. C. C. Co., L. S	LaSalle	1856
LaSalle Co. C. C. Co., Union	Union Coal Co	LaSalle	1871
Girard Coal Co	Ill. Coal Corp., No. 4	Macoupin	1867
City Coal Co	Henrietta C. Co. Hen	Madison	1879
Auburn & Alton C. Co	Union Fuel Co., No. 3	Sangamon	1878
Dickerson C. Co	Lincoln C. Corp	Sangamon	1882
Springfield Co-op. C. Co	Panther Creek, No. 5	Sangamon	1875
Sangamon C. Co., No. 2	Sangamon C. Co., No. 2	Sangamon	1880
West End C. Co	Panther Creek, No. 4	Sangamon	1871
Glendale C. Co	Power C. Co	St. Clair	1869
Wilharmel C. Co	Service C. Co	St. Clair	1881
International C. Co	Perry C. Co. "Carbon"	St. Clair	1851
Nicholson C. Co	Clarkson Coal Co	Washington	1880

MINES OPENED FROM 1883 TO 1911

Name in 1911	Present name	County in which mine is located	Year opened
Pocahontas M. Co	Bond Co. Coal Co	Bond	1906
Assumption C. Co	Victory Coal Co	Christian	1887
Pana Coal Co., No. 1	Pana Coal Co., No. 1	Christian	1884
Pana Coal Co., No. 2	Pana Coal Co., No. 2	Christian	1906
Penwell Coal Co	Penwell Coal Co	Christian	1889
Smith Lohr C. Co	Springside C. Co	Christian	1906
Springfield C. M. Co., No. 6	Peabody C. Co., No. 58	Christian	1887
Stonington C. Co	Peabody C. Co., No. 21	Christian	1906
C. W. Vanderver C. Co	Young & Tex C. Co	Christian	1888
Breese-Trenton M. Co	Breese-Trenton M. Co. East	Clinton	1887
Breese-Trenton M. Co	Breese-Trenton M. Co. Beck	Clinton	1905
North Breese C. M. Co	Breese-Trenton M. Co. North	Clinton	1905
Southern C. C. & M. Co., No. 9	Southern C. C. & M. Co., No. 9	Clinton	1897
Benton Coal Co., No. 1	C. W. & F. C. Co., B, No. 1	Franklin	1905
Big Muddy-Carterville C. Co	Franklin Co. C. Co., No. 7	Franklin	1905
Carroll & Franklin Co. C. Co	Black Star C. Co	Franklin	1909
Brazil Block C. Co., No. 11	Peabody C. Co., No. 18	Franklin	1905
Brazil Block C. Co., No. 18	Peabody C. Co., No. 19	Franklin	1907
Hart-Williams C. Co	C. W. & F. C. Co., B2	Franklin	1907
Ohio Valley M. Co., No. 8	Old Ben C. Corp., No. 8	Franklin	1910
W. P. Rend Col. Co	Old Ben C. Corp., No. 19	Franklin	1907
Sesser C. Co	Old Ben C. Corp., No. 16	Franklin	1907
Southern Ill. C. & C. Co	Franklin Co. C. Co., No. 5	Franklin	1908
United C. M. Co., No. 1	Old Ben C. Corp., No. 12	Franklin	1906
United C. M. Co., No. 2	Old Ben C. Corp., No. 14	Franklin	1911
West Frankfort C. Co	Brewerton C. Co., No. 21	Franklin	1910
Zeigler C. Co., No. 1	Bell & Zoller M. Co., No. 1	Franklin	1904
Zeigler Dist. C. Co	Old Ben C. Corp., No. 11	Franklin	1906
Canton C. Co	Canton C. Co	Fulton	1906
National C. M. Co	Dorthel C. Co., No. 3	Fulton	1892
Alden Coal Co., No. 5	Illinois Colliery Co	Fulton	1892

MINES OPENED FROM 1883 TO 1911—Continued

Name in 1911	Present name	County in which mine is located	Year opened
Muddy Valley C. Co.	Jackson C. Co.	Jackson	1888
Peacock C. Co.	Chicago Fuel Co., Ward	Jackson	1910
Latham C. Co.	Brewerton C. Co., No. 92	Logan	1900
Decatur C. Co., No. 2	Macon Co. C. Co., No. 2	Macon	1884
Consolidated C. Co., No. 7	Consolidated C. Co., No. 7	Macoupin	1886
Consolidated C. Co., No. 14	Consolidated C. Co., No. 14	Macoupin	1903
Consolidated C. Co., No. 15	Consolidated C. Co., No. 15	Macoupin	1904
Madison C. Corp., No. 5	Madison C. Corp., No. 5	Macoupin	1887
Glen Ridge C. Co.	Ill. Coal Corp., No. 3	Macoupin	1893
Vivian Col. Co.	Union Fuel Co., No. 6	Macoupin	1896
Carlinville C. Co.	Standard Oil Co., No. 1	Macoupin	1885
Superior C. Co., No. 1	Superior C. Co., No. 1	Macoupin	1904
Superior C. Co., No. 2	Superior C. Co., No. 2	Macoupin	1904
Superior C. Co., No. 3	Superior C. Co., No. 3	Macoupin	1904
Donk Bros. C. Co.	Troy C. Co.	Madison	1900
Home Trade C. Co.	Henrietta C. Co. H. T.	Madison	1898
Bullock M. Co.	Bullock M. Co.	Madison	1898
East Side C. Co.	East Side C. Co.	Madison	1910
Lumaghi C. Co., No. 2	Lumaghi C. Co., No. 2	Madison	1901
Lumaghi C. Co., No. 3	Lumaghi C. Co., No. 3	Madison	1903
Madison C. Corp., No. 2	Madison C. Corp., No. 2	Madison	1891
Mt. Olive & Staunton C. Co., No. 2	Mt. Olive & Staunton C. Co., No. 2	Madison	1904
New Staunton C. Co.	New Staunton C. Co.	Madison	1904
Abbey Coal Corp.	Abbey Coal Corp.	Madison	1903
Chicago-Sandoval C. Co.	Franklin Co. C. Co., No. 9	Marion	1905
Marion Co. C. Co.	Marion Co. C. Co.	Marion	1908
Odin C. Co.	Odin C. Co.	Marion	1886
Burnwell C. Co., No. 1	Ind. & Ill. C. Corp., No. 12	Montgomery	1903
Kort-Kamp C. Co.	Ind. & Ill. C. Corp., No. 11	Montgomery	1903
Montgomery Co. C. Co.	Ind. & Ill. C. Corp., No. 15	Montgomery	1907
Shoal Creek C. Co.	Cosgrove-Meehan C. Co., No. 5	Montgomery	1905
Hillsboro C. Co.	Hillsboro C. Co.	Montgomery	1887
Peabody C. Co., No. 10	Ind. & Ill. C. Corp., No. 10	Montgomery	1906
Lovington C. Co.	Lovington C. Co.	Moultrie	1909
Crescent C. Co., No. 1	Crescent C. Co., No. 1	Peoria	1887
Applegate & Lewis C. Co.	Dorthel C. Co., No. 1	Peoria	1908
Mapleton C. Co.	East Mapleton C. Co.	Peoria	1907
Warsaw C. Co.	Central West C. Co.	Peoria	1906
Bald Eagle M. Co.	Egyptian Coal Co.	Perry	1904
Little Muddy Fuel Co.	Tamaroa Coal Co.	Perry	1901
Majestic C. Co.	Crerar-Clinch C. Co.	Perry	1905
Ritchey C. Co.	Brewerton C. Co., No. 45	Perry	1909
St. Louis-Coulterville C. Co.	Perry Coal Co. Perco	Perry	1901
Bailey Bros. C. Co.	Bailey Bros. C. Co.	Perry	1902
Security C. M. Co.	Security C. M. Co.	Perry	1910
Mo. & Ill. C. Co.	Willis C. & M. Co., No. 8	Perry	1903
Bresmer W. C. Co.	Madison C. Corp. (Crystal)	Randolph	1902
Ill. Fuel Co., No. 4	Sparta C. Co.	Randolph	1903
West Mine C. Co.	St. Louis C. Co.	Randolph	1900
Jones Bros. C. Co., No. 2	Jones Bros. C. Co., No. 2	Randolph	1904
Moffat C. Co.	Moffat C. Co.	Randolph	1903
Willis C. M. Co., No. 6	Willis C. M. Co., No. 6	Randolph	1888
Saline Co. C. Co., No. 2	Peabody C. Co., No. 42	Saline	1906
Saline Co. C. Co., No. 3	Peabody C. Co., No. 43	Saline	1911
Harrisburg-Southern C. Co.	Peabody C. Co., No. 46	Saline	1905
O'Gara C. Co., No. 1	O'Gara C. Co., No. 1	Saline	1905
O'Gara C. Co., No. 3	O'Gara C. Co., No. 3	Saline	1904
O'Gara C. Co., No. 8	O'Gara C. Co., No. 8	Saline	1904
O'Gara C. Co., No. 10	O'Gara C. Co., No. 10	Saline	1904
Harrisburg B. M. C. Co., No. 12	O'Gara C. Co., No. 12	Saline	1904
Harrisburg Col. Co., No. 15	O'Gara C. Co., No. 15	Saline	1909
Wasson Coal Co., No. 1	Wasson Coal Co., No. 1	Saline	1907
Black Diamond C. Co.	Peabody C. Co., No. 54	Sangamon	1904
Capital C. Co.	Peabody C. Co., No. 57	Sangamon	1891
Citizens C. M. Co. A	Central Ill. C. Co.	Sangamon	1894
Citizens C. M. Co. B	Mine B Coal Co.	Sangamon	1898
Cora Coal Co.	Peabody C. Co., No. 51	Sangamon	1905
Ill. Midland C. Co., No. 6	Peabody C. Co., No. 6	Sangamon	1903
Jones & Adams C. Co.	Peabody C. Co., No. 59	Sangamon	1905
Lefton C. Co.	Ill. C. Corp., No. 2	Sangamon	1893
O'Gara C. Co.	Brewerton C. Co., No. 81	Sangamon	1901
Tuxhorn Coal Co.	Union Fuel Co., No. 2	Sangamon	1904
Springfield C. M. Co., No. 2	Peabody C. Co., No. 52	Sangamon	1893
Woodside C. Co.	Peabody C. Co., No. 53	Sangamon	1884
Springfield C. M. Co., No. 5	Peabody C. Co., No. 55	Sangamon	1885
Williamsville C. Co.	Union Fuel Co., No. 5	Sangamon	1893
C. W. & V. C. Co., No. 1	C. W. & F. C. Co., No. 1	Sangamon	1900
Madison C. Corp., No. 6	Madison C. Corp., No. 6	Sangamon	1900

MINES OPENED FROM 1883 TO 1911—Concluded

Name in 1911	Present name	County in which mine is located	Year opened
Spring Creek C. Co	Panther Creek, No. 3	Sangamon	1905
Cluly-Miller C. Co	H. E. Miller C. Co	St. Clair	1884
Johnson C. Co	Egyptian C. Co. OK	St. Clair	1888
Meek C. Co	Egyptian C. Co. Meek	St. Clair	1904
People's C. Co	Caseyville C. Co	St. Clair	1903
Reeb Bros. C. Co	Hippard Coal Co	St. Clair	1896
Superior C. Co	Perry C. Co. Sup	St. Clair	1905
Taylor C. Co. Taylor	Perry C. Co. Taylor	St. Clair	1890
Taylor C. Co. St. Ellen	Perry C. Co. St. Ellen	St. Clair	1903
Prairie Coal Co	Prairie Coal Co	St. Clair	1896
Consolidated C. Co., No. 17	Consolidated C. Co., No. 17	St. Clair	1905
Eldnar C. Co	Eldnar C. Co	St. Clair	1911
Fullerton C. Co	Fullerton C. Co	St. Clair	1891
Golden Rule C. Co	Golden Rule C. Co	St. Clair	1911
Groom Coal Co	Groom Coal Co	St. Clair	1894
Jones Bros. C. Co., No. 1	Jones Bros. C. Co., No. 1	St. Clair	1898
Kolb C. Co., No. 1	Kolb C. Co., No. 1	St. Clair	1895
Kolb C. Co., V. H	Vinegar Hill C. Co	St. Clair	1901
Mulberry Hill C. Co	Mulberry Hill C. Co	St. Clair	1906
New National C. Co	New National C. Co	St. Clair	1911
St. Louis & O'Fallon C. Co., No. 1	St. Louis & O'Fallon C. Co., No. 1	St. Clair	1899
St. Louis & O'Fallon C. Co., No. 2	St. Louis & O'Fallon C. Co., No. 2	St. Clair	1904
Southern C. C. & M. Co., No. 6	Southern C. C. & M. Co., No. 6	St. Clair	1897
Southern C. C. & M. Co., No. 8	Southern C. C. & M. Co., No. 8	St. Clair	1902
Summit C. M. Co	Summit C. M. Co	St. Clair	1890
Southern C. C. & M. Co., No. 7	Southern C. C. & M. Co., No. 7	St. Clair	1904
Southern C. C. & M. Co., No. 1	Southern C. C. & M. Co., No. 1	St. Clair	1890
Moweaqua C. M. Co	Moweaqua C. M. Co	Shelby	1890
Lake Erie M. Co	Lake Erie M. Co	Tazewell	1902
Ubben C. Co	Ubben C. Co	Tazewell	1903
Bunsen C. Co	U. S. Fuel Co. Verm	Vermilion	1906
United Electric C. Co., No. 1	United Electric C. Co., No. 1	Vermilion	1910
Dering C. Co., No. 4	Peabody C. Co., No. 24	Vermilion	1904
Centralia C. Co	Centralia C. Co	Washington	1909
Norris City C. Co	Firebrand Fuel Co	White	1905
Big Muddy C. & I. Co., No. 7	Consolidated C. Co., No. 7	Williamson	1901
Big Muddy C. & I. Co., No. 8	Consolidated C. Co., No. 8	Williamson	1905
Big Muddy C. & I. Co., L. C	Consolidated C. Co., L. C	Williamson	1908
Carterville-Herrin C. Co	Carterville-Herrin C. Co	Williamson	1902
Chicago-Carterville C. Co. A	C. W. & F. M. Co. A	Williamson	1897
Keystone B. M. C. Co	Ill. Higrade C. Co	Williamson	1908
Pond Creek C. Co	Freeman C. Co	Williamson	1909
W. P. Rend C. Co	Old Ben C. Corp., No. 20	Williamson	1908
Standard Col. M. Co	Crerar-Clinch C. Co	Williamson	1905
Watson C. Co., No. 2	Skaggs C. Co	Williamson	1903
Big Muddy Fuel Co	Peabody C. Co., No. 26	Williamson	1900
Madison C. Corp., No. 9	Madison C. Corp., No. 9	Williamson	1903
Roanoke C. Co	Roanoke Coal & Tile Co	Woodford	1884
Minonk C. Co	W. G. Sutton C. Co	Woodford	1898

MINES OPENED FROM 1912 TO DECEMBER 31, 1930

Former name	Present name	County	Year opened
	Cherry Coal Co	Bureau	1929
Ill. Midland C. Co	Peabody Coal Co., No. 7	Christian	1912
	Peabody Coal Co., No. 8	Christian	1913
	Peabody Coal Co., No. 9	Christian	1919
	Bell & Zoller M. Co., No. 2	Franklin	1918
Modern Coal Co	Brewerton Coal Co., No. 22	Franklin	1918
	Old Ben C. Corp., No. 9	Franklin	1913
Christopher C. M. Co., No. 1	Old Ben C. Corp., No. 10	Franklin	1913
	Old Ben C. Corp., No. 15	Franklin	1913
	C. W. & F. C. Co., No. 1	Franklin	1913
	C. W. & F. C. Co., No. 2	Franklin	1923
	Franklin Co. M. Co	Franklin	1918
Middle Fork C. Co	United States Fuel Co	Franklin	1916
	Valier Coal Co	Franklin	1918
	Western C. & M. Co	Franklin	1917
Alden Coal Co., No. 8	Dorthel C. Co., No. 2	Fulton	1915
	Putnam C. Co	Fulton	1925
	Rawalt C. Co	Fulton	1919
	Truax-Traer C. Co	Fulton	1929
	United Electric C. Co	Fulton	1924

MINES OPENED FROM 1912 TO DECEMBER 31, 1930—Concluded

Former name	Present name	County	Year opened
Leland Coal Co.	Sunlight C. Co.	Grundy	1924
	Midland Elec. C. Co.	Henry	1929
	Shuler Coal Co.	Henry	1922
	DeSoto-Peacock C. Co.	Jackson	1915
Murphysboro M. Co.	Spirit of Egypt C. Co.	Jackson	1925
Black Servant C. Co.	Truax-Traer C. Co., No. 1	Jackson	1924
Forsyth C. Co.	Truax-Traer C. Co., No. 2	Jackson	1925
	Union Col. Co.	Jackson	1918
	Ill. Coal Corp., No. 10	Jefferson	1923
	Galesburg M. Co.	Knox	1925
	Gillespie C. Co.	Macoupin	1920
	Perry Coal Co.	Macoupin	1923
Carlinville M. Co.	South Mine C. Co.	Macoupin	1919
	Standard Oil Co., No. 2	Macoupin	1918
	Superior C. Co., No. 4	Macoupin	1918
	Bunker Hill C. Co.	Madison	1921
Jay Coal Co.	Carlin C. Co.	Madison	1921
	Collinsville C. Corp.	Madison	1925
Donk Bros. C. Co., No. 4	Peabody Coal Co., No. 17	Madison	1920
Nokomis Coal Co.	Ill. Coal Corp., No. 9	Montgomery	1913
Newsam Bros. C. Co., No. 5	Crescent Coal Co., No. 5	Peoria	1920
Newsam Bros. C. Co., No. 6	Crescent Coal Co., No. 6	Peoria	1922
Soper Coal Co., No. 2	Chicago Col. Co., No. 2	Perry	1918
	Gayle Coal Co.	Perry	1925
Scott-Smith C. Co.	Perfection C. Co.	Perry	1919
	Pyramid C. Co.	Perry	1926
Ill. Sixth Vein C. Co.	Southern Gem C. Co., No. 6	Perry	1919
Allen Coal Co.	Southern Gem C. Co., No. 7	Perry	1920
	Wilson C. M. Co.	Perry	1923
	United Electric C. Co., No. 11	Perry	1929
	Geo. Wilson C. Co.	Randolph	1925
	Willis C. & M. Co., No. 9	Randolph	1918
	Blue Bird Coal Co.	Saline	1929
	Dodds Coal Co.	Saline	1919
Dering Coal Co.	Franklin Co. C. Co., No. 10	Saline	1918
	Harrisburg C. Co., No. 8	Saline	1927
	Harrisburg C. Co., No. 9	Saline	1927
Big Creek C. Co., No. 4	Peabody C. Co., No. 44	Saline	1921
Harrisburg Col. Co.	Peabody C. Co., No. 47	Saline	1917
	Rhonda C. Co.	Saline	1923
	Saline Valley C. Co., No. 3	Saline	1918
	Wasson Coal Co., No. 2	Saline	1916
	Panther Creek Inc., No. 1	Sangamon	1918
Bissell C. Co.	Utilities C. Corp.	Sangamon	1919
Radium C. Co.	Alcoa Ore Co.	St. Clair	1915
	B. B. Coal Co.	St. Clair	1918
	Ell-Rich C. Co.	St. Clair	1918
	Guest Coal Co.	St. Clair	1917
	Gundlach C. Co.	St. Clair	1914
	Kolb Coal Co., No. 2	St. Clair	1912
New Marissa C. Co.	Lyle Coal Co.	St. Clair	1920
Jack Run C. Co.	Lou-Nash C. Co., No. 2	St. Clair	1917
	Quality C. Co.	St. Clair	1917
Solar Coal Co.	United Electric C. Co., No. 13	St. Clair	1925
Groveland C. Co.	Crescent Coal Co., No. 2	Tazewell	1918
	Taylor-English C. Co., No. 2	Vermilion	1918
McComb Coal Co.	Taylor-English C. Co., No. 3	Vermilion	1924
	United Electric C. Co., No. 14	Vermilion	1927
Bunsen Coal Co.	U. S. Fuel Co., Bunsen	Vermilion	1916
	Northern Ill. C. Co.	Will	1927
	Carbon Fuel Co.	Williamson	1918
Carterville B. M. C. Co.	City Lake C. Co.	Williamson	1918
Ernest Coal Co., No. 1	Cosgrove-Meehan C. Co., No. 1	Williamson	1916
Marion & Pittsburg C. Co.	Cosgrove-Meehan C. Co., No. 2	Williamson	1917
Sanford Coal Co.	Cosgrove-Meehan C. Co., No. 3	Williamson	1921
	Henderson-Wallace C. Co.	Williamson	1926
	McLaren C. Co.	Williamson	1926
	Madison C. Corp., No. 12	Williamson	1921
Orchard Coal Co.	Ohio Valley C. Co.	Williamson	1918
Cambria Coal Co.	Ogmore Coal Co.	Williamson	1926
Johnston City B. M. C. Co., No. 1	Old Ben C. Corp., No. 17	Williamson	1918
Johnston City B. M. C. Co., No. 2	Old Ben C. Corp., No. 18	Williamson	1918
Federal Coal Co.	Peabody Coal Co., No. 25	Williamson	1917
	Puritan Coal Co.	Williamson	1924
	St. Louis Coal & Iron Co., No. 2	Williamson	1920
	Scottsboro Coal Co.	Williamson	1928
	Tregoning C. Co.	Williamson	1928
	Wallace C. Co.	Williamson	1930

MINES OPENED FROM 1931-1954

Former name	Present name	County	Year opened
	Spring Valley Coal Mining Co. No. 3	Bureau	1935
	Pioneer Coal Co	Bureau	1941
	Midland Electric Coal Corp. No. 1	Bureau	1947
	Peabody Coal Co. No. 17	Christian	1949
	Peabody Coal Co. No. 10	Christian	1951
	Franklin County Coal Corp. "Lida B"	Franklin	1948
	Midland Electric Coal Co. No. 2	Fulton	1933
	E. A. Reed Coal Co	Fulton	1934
	Sunny Side Coal Co	Fulton	1933
	Livings & Smith	Fulton	1934
	Peterson Coal Co	Fulton	1937
	Truax-Traer Coal Co. No. 2	Fulton	1935
	Pschirrer and Son Coal Co., Kildee No. 3	Fulton	1936
Central States Colleries, Inc	Little Sister Coal Corp. No. 2	Fulton	1936
	United Electric Coal Co. No. 17	Fulton	1937
	Central States Colleries, Inc. No. 6	Fulton	1941
	F. C. Morgan Coal Co	Fulton	1941
	Fairview Colleries, Inc	Fulton	1941
	D. & D. Coal Co	Fulton	1934
	Tripple "S" Mines No. 1	Fulton	1937
	Midland Electric Coal Co. No. 3	Fulton	1942
Carter Coal & Trucking Co	Rice Lake Coal Co	Fulton	1948
	Key Coal Co	Fulton	1948
Central States Collieries, Inc. No. 2	Little Sister Coal Co. No. 6	Fulton	1942
	Morgan Mines, Inc	Fulton	1942
	Producers Coal Co	Gallatin	1945
	Regenhardt & Southern Coal Co. No. 4	Gallatin	1951
	Northeastern Illinois Coal Co	Grundy	1936
	Will County Coal Co	Grundy	1936
	Northwestern Illinois Coal Corp	Grundy	1945
	F. C. Morgan Coal Co	Henry	1941
	Alpha Coal Co	Henry	1947
	Little Muddy Coal Co. No. 1	Jackson	1932
Peacock Coal Co. No. 1	R. P. M., Inc., "Joliana Mine"	Jackson	1933
Patrick McCormick	Joliana Mining Co	Jackson	1936
	Johns Coal Co. No. 1	Jackson	1947
Morgan Coal Co	Downstate Coal Co., Inc	Jackson	1948
	Joe Day Coal Co	Jackson	1949
	Chicago, Wilmington & Franklin Coal Co. No. 3	Jefferson	1947
	Little John Coal Co. No. 5	Knox	1936
Graham Coal Co	Little Coal Co	Knox	1934
	Midland Electric Coal Co. No. 3	Knox	1942
Thermal Coal Co	Knoxville Mining Co. No. 2	Knox	1936
	Northern Illinois Coal Corp. No. 14E	Kankakee	1950
	Buffalo Rock Coal Co	LaSalle	1934
	Wilmington Coal Mines, Inc	LaSalle	1935
	Osage Coal Co. No. 1	LaSalle	1935
	Stiers Brothers Const. Co	Madison	1934
	Freeman Coal Mining Corp	Montgomery	1951
Coal Stripping Co	Pyramid Coal Corp. Strip No. 1	Perry	1931
Ring Coal Co. No. 1	New Galem Coal Co	Perry	1932
Conant Coal Co	Big "5" Coal Co	Perry	1934
	Talbot Coalery Co	Perry	1934
	Black Gold Coal Co	Perry	1941
	Union Colliery Co	Perry	1946
	Ritter Coal Co. No. 2	Perry	1937
	Truax-Traer Coal Co. No. 2	Perry	1950
	Southwestern Illinois Coal Corp	Randolph	1936
	Moffat Coal Co. No. 2	Randolph	1939
	Midwest Utilities Corp	Randolph	1952
	Ritter Coal Co. No. 3	Randolph	1952
	Blue Bird Coal Co. No. 6	Saline	1936
Bankston Creek Collieries No. 6	Sahara Coal Co. No. 6	Saline	1936
Bankston Creek Collieries No. 5	Sahara Coal Co. No. 5	Saline	1936
	Bankston Creek Collieries No. 4	Saline	1939
Bankston Creek Collieries No. 16	Sahara Coal Co. No. 16	Saline	1940
	Indian Head Coal Co	Saline	1936
	The New Coal Co	Saline	1943
Bankston Creek Collieries No. 7	Sahara Coal Co. No. 7	Saline	1944
	Russel Coal Co. No. 1	Saline	1946
	Cottage Grove Coal Co	Saline	1947
	Bankston Creek Collieries No. 2	Saline	1947
Earl Scroggins Mine No. 1	Rocky Branch Coal Co	Saline	1936

MINES OPENED FROM 1931-1954—Continued

Former name	Present name	County	Year opened
	Peabody Coal Co. No. 40	Saline	1949
	Saxton Coal Corp	Saline	1953
	F. C. Morgan Coal Co. No. 2	St. Clair	1934
	F. C. Morgan Coal Co. No. 1	St. Clair	1933
West Side Coal Co	New West Side Coal Co., Inc	St. Clair	1933
	Belle Valley Coal Co	St. Clair	1938
	Mid-Continent Coal Corp	St. Clair	1948
	Seminole Coal Corp. No. 17	St. Clair	1948
	Morgan Mines, Inc	St. Clair	1948
Schuyler Coal Corp. No. 1	Solar Mining Co. No. 1	Schuyler	1940
	Schuyler Coal Corp. No. 2	Schuyler	1941
Coal Stripping Co. No. 2	Pyramid Coal Corp. No. 2	Vermilion	1934
	Oakwood Coal Co	Vermilion	1933
	F. C. Morgan Coal Co	Vermilion	1935
	J. G. Skeleton Coal Co	Vermilion	1935
	Grape Creek Mining Co	Vermilion	1939
Pichon Coal Co	Tilton Mining Co. No. 2	Vermilion	1932
	Dixon Block Coal Co. No. 2	Vermilion	1944
	Dixon Block Coal Co., "Walnut Grove"	Vermilion	1946
	Cherokee Mines	Vermilion	1947
	Fairview Colleries Corp., "Harmattan"	Vermilion	1949
	V-Day Coal Co	Vermilion	1945
	Will County Coal Co	Will	1935
	Wilmington Coal Mining Corp. No. 1	Will	1940
	Carterville Coal Mining Co. No. 1	Williamson	1931
McCluskey-Pendley & Wilkerson	Pendley-Wilkerson Coal Co	Williamson	1931
	Carterville Peacock Coal Co	Williamson	1932
	New Watson Coal Co. No. 1	Williamson	1933
	Carterville Mining & Engineering Co	Williamson	1934
	Forsyth-Carterville Coal Co	Williamson	1934
	Rodney Coal Co	Williamson	1934
Delta Coal Mining Co	Delta Collieries Corp	Williamson	1935
	Jefferies Coal Co. No. 1	Williamson	1935
	Jefferies Coal Co. No. 2	Williamson	1936
	Jefferies Coal Co. No. 3	Williamson	1936
	Diamond Coal Co. No. 2	Williamson	1936
	McClaren Coal Co. No. 2	Williamson	1936
	Southern Jewel Coal Co	Williamson	1936
	Consolidated Coal Co., "Buckhorn"	Williamson	1938
	Diamond Coal Co. No. 3	Williamson	1938
	Cox Coal Co	Williamson	1939
Logan-Illich Coal Co	Diamond Coal Co. No. 2	Williamson	1944
Wilkins-Biggs Coal Co	Schull & Moake Coal Corp	Williamson	1943
Turner Coal Corp. No. 1	Little Creek Coal Co. No. 1	Williamson	1944
	Fretto Construction Co	Williamson	1944
	Downstate Coal Co	Williamson	1946
	Forsyth-Williamson Coal Co	Williamson	1946
	Blue Bird Coal Co. No. 7	Williamson	1946
	Producers Coal Co	Williamson	1946
	Ragenhardt & Southern Construction Co	Williamson	1947
	Morgan Mines	Williamson	1947
Barchrist Mining Co	Producers Mining Co	Williamson	1947
	Bell & Zoller Coal & Mining Co. No. 3	Williamson	1948
	Freeburn Mining Co. No. 3	Williamson	1947
	Carmac Coal Co	Williamson	1948
	Blue Bird Coal Co. No. 8	Williamson	1948
	C. H. Rumburg Coal Co	Williamson	1950
	Freeman Coal Mining Corp. No. 4	Williamson	1951
	Stonefort Corp., "Will Scarlet"	Williamson	1953

SHIPPING MINES AT CLOSE OF 1953

There are 118 shipping mines in the State, 97 of which produced coal in 1953 and 21 were not operated. The total output of these mines, as shown by the Annual Coal Reports since 1911 and by the estimates prior to that time, is given in the list below, together with the location, year opened, depth of shaft, thickness and number of seam.

TABLE 27—PRESENT NAME OF OPERATOR, LOCATION OF MINE, YEAR OPENED, DEPTH OF SHAFT, THICKNESS AND NUMBER OF SEAM AND TOTAL TONS MINED FROM THE YEAR THE MINE WAS OPENED TO JANUARY 1, 1954

Name of operator	Name or no. of mine	Location of mine		Year opened	Kind of opening and depth of seam				Thickness of seam	No. of seam	Total tons of coal produced
		Post office	County		Shaft	Slope	Drift	Strip			
Peabody Coal Co	No. 8	Tovey	Christian	1913	372′				7′2″	6	46,881,966
Peabody Coal Co	No. 10	Pawnee	Christian	1951		340′			7′2″	6	3,330,674
Peabody Coal Co	No. 17	Pana	Christian	1949	713′				8′	6	6,578,117
Breese Coal Co., Inc	North Breese	Breese	Clinton	1905	420′				7′	6	6,047,355
Citizens Coal Co	East Breese	Breese	Clinton	1887	435′				7′	6	10,496,646
Bell & Zoller Coal Co	Murdock	Murdock	Douglas	1946	207′				7′	6	896,648
Chicago, Wilmington & Franklin Coal Co	Orient No. 1	Orient	Franklin	1914	512′				9′6″	6	37,276,725
Chicago, Wilmington & Franklin Coal Co	Orient No. 2	West Frankfort	Franklin	1924	491′				9′2″	6	53,991,070
Old Ben Coal Corp	No. 9	West Frankfort	Franklin	1914	482′				8′8″	6	18,874,217
Old Ben Coal Corp	No. 11	Coello	Franklin	1907	607′				9′6″	6	25,817,149
Old Ben Coal Corp	No. 14	Buckner	Franklin	1911	459′				8′11″	6	29,079,768
Old Ben Coal Corp	No. 15	West Frankfort	Franklin	1913	426′				8′	6	28,987,880
Old Ben Coal Corp	No. 22	Valier	Franklin	1918	478′				8′4″	6	33,006,239
Fairview Collieries Corp	Flamingo	Fairview	Fulton	1941				48′	4′4″	5	9,077,316
Key Coal Co	Key	Astoria	Fulton	1948				45′	5′5″	5	2,048,949
Little Sister Coal Corp		St. David	Fulton	1936				60′	4′10″	5	11,696,225
*Midland Electric Coal Corp	Middlegrove No. 2	Farmington	Fulton	1933				31′	3′1″	6	14,193,345
Morgan Mines, Inc	Morgan Bryant	Lewistown	Fulton	1942				25′-45′	4′6″	5	2,691,782
Pschirrer Coal Co	No. 3	Canton	Fulton	1936	150′				4′2″	5	1,672,288
Truax-Traer Coal Co	Red Ember No. 2	Fiatt	Fulton	1935				50′	4′6″	5	18,195,868
The United Electric Coal Cos	No. 9	Cuba	Fulton	1924				68′	4′11″	5	17,240,380
The United Electric Coal Cos	Buckheart No. 17	Canton	Fulton	1937				56′	5′1″	5	13,264,181
Alpha Coal Co		Alpha	Henry	1947		157′			4′6″	1	84,957
Bugos White Coal Co		Alpha	Henry	1923	267′				4′6″	1	2,148,495
†Midland Electric Coal Corp	No. 1	Atkinson	Henry	1929				50′	4′1″	6	13,589,227
Down State Coal Co	Admiral No. 2	DeSoto	Jackson	1948				35′	7′	6	137,464
Joliana Mining Co		Elkville	Jackson	1936	145′				8′	6	753,339
Truax-Traer Coal Co	Drift No. 1	Elkville	Jackson	1941			40′-120′		7′	6	7,124,535
Truax-Traer Coal Co	Strip No. 1	Elkville	Jackson	1925				17′-55′	3′6″	5	13,551,918
Chicago, Wilmington & Franklin Coal Co	Orient No. 3	Waltonville	Jefferson	1949		800′			9′	6	3,411,351
Northern Illinois Coal Corp	Essex No. 14	Wilmington	Kankakee	1950				65′	3′	7	2,925,555
Little Coal Co		Farmington	Knox	1934		135′			3′8″	5	281,831
Little John Coal Co., Inc	No. 5	Victoria	Knox	1936				37′	3′8″	6	9,486,458
Midland Electric Coal Corp	Rapatee No. 3	Farmington	Knox	1942				38′	3′3″	5	7,990,888

* 6,654,718 tons of coal mined in Knox County.
† 4,574,070 tons of coal mined in Bureau County.

TABLE 27—Continued

Name of operator	Name or no. of mine	Location of mine		Year opened	Kind of opening and depth of seam				Thickness of seam	No. of seam	Total tons of coal produced
		Post office	County		Shaft	Slope	Drift	Strip			
Carlinville Coal Mining Co.	South Mine	Carlinville	Macoupin	1919	260′				6′	6	826,184
Little Dog Coal Co.		Gillespie	Macoupin	1919	347′				7′6″	6	7,879,854
Superior Coal Co.	No. 2	Gillespie	Macoupin	1904	321′				7′5″	6	33,670,440
Superior Coal Co.	No. 3	Gillespie	Macoupin	1904	347′				7′7″	6	37,083,079
Superior Coal Co.	No. 4	Gillespie	Macoupin	1918	314′				7′	6	24,241,358
Virden Mining Corp.	North Mine	Virden	Macoupin	1895	330′				6′6″	6	10,950,979
The Livingston-Mt. Olive Coal Co.	No. 1	Livingston	Madison	1905	280′				8′	6	18,787,590
The Lumaghi Coal Co.	Cantine No. 4	Collinsville	Madison	1950		196′			8′	6	1,731,242
Mt. Olive & Staunton Coal Co.	No. 2	Staunton	Madison	1904	312′				6′6″	6	30,612,266
Marion County Coal Mining Corp.	Glenridge	Centralia	Marion	1907	600′				6′6″	6	13,383,989
Freeman Coal Mining Corp.	Crown Mine	Farmersville	Montgomery	1951	354′				7′	6	2,708,041
Nokomis Coal Co.	Reliance No. 1	Nokomis	Montgomery	1913	640′				8′2″	6	17,593,857
Big Five Coal Co., Inc.	Conant	Cutler	Perry	1932	102′				6′	6	307,747
Cutler Coal Co., Inc.		Cutler	Perry	1920	120′				6′	6	2,238,746
Peabody Coal Co.	No. 14	DuQuoin	Perry	1904	405′				8′	6	27,030,922
Pinckneyville Mining Co.	No. 5	Pinckneyville	Perry	1909	160′				7′3″	6	3,742,592
Ritter Coal Co.	Red Fox No. 2	DuQuoin	Perry	1937				35′	5′	6	331,344
Service Coal Co.	No. 6	Pinckneyville	Perry	1921	145′				6′6″	6	628,814
Truax-Traer Coal Co.	No. 2	Pinckneyville	Perry	1950				32′	5′8″	6	2,104,893
Truax-Traer Coal Co.	Pyramid	Pinckneyville	Perry	1926				33′	6′	6	28,472,358
Union Colliery Co.	New Kathleen	DuQuoin	Perry	1946		85′			6′	6	6,303,496
The United Electric Coal Cos.	Fidelity No. 11	DuQuoin	Perry	1929				51′6″	6′	6	29,376,691
Midwest Utilities Coal Corp.	Bradbury	Sparta	Randolph	1952		203′			6′6″	6	208,756
Moffat Coal Co.		Sparta	Randolph	1939		88′			6′	6	8,550,925
Ritter Coal Co.	Red Fox No. 3	Sparta	Randolph	1952				35′	6′	6	8,778
Southwestern Illinois Coal Corp.	Streamline	Percy	Randolph	1936				47′	5′11″	6	14,913,427
West Side Coal Co.	No. 1	Sparta	Randolph	1936	75′				6′1″	6	146,757
Golden Rule Coal Co.		Lenzburg	St. Clair	1911		55′			6′6″	6	2,749,652
Mid-Continent Coal Corp.	Green Diamond	Marissa	St. Clair	1948		77′			7′	6	2,502,129
Morgan Mines, Inc.		Millstadt	St. Clair	1948				32′	5′6″	6	870,304
Mulberry Hill Coal Co.		Freeburg	St. Clair	1905	150′				7′6″	6	3,841,537
New West Side Coal Co.	No. 1	Marrissa	St. Clair	1933	90′				6′6″	6	1,201,938
Perry Coal Co.	St. Ellen	O'Fallon	St. Clair	1903		207′			6′6″	6	14,680,735
St. Louis & O'Fallon Coal Co.	Black Eagle No. 2	Belleville	St. Clair	1904	204′				6′6″	6	23,007,725
Seminole Coal Corp.	No. 17	Lenzburg	St. Clair	1948				45′	6′2″	6	3,558,606
The United Electric Coal Cos.	No. 13	Freeburg	St. Clair	1925				35′	6′6″	6	4,991,781
Eldorado Coal Corp.		Eldorado	Saline	1918	465′				5′6″	5	11,121,034
Peabody Coal Co.	No. 40	Galatia	Saline	1949		328′			4′2″	5	2,060,349
Peabody Coal Co.	No. 43	Harrisburg	Saline	1947		230′			4′6″	5	4,379,412
Sahara Coal Co., Inc.	No. 5	Harrisburg	Saline	1936		135′			4′6″	5	7,307,675
Sahara Coal Co., Inc.	No. 6	Harrisburg	Saline	1936				15′-60′	4′8″	6	9,370,673
Sahara Coal Co., Inc.	No. 7	Harrisburg	Saline	1944		355′			5′3″	5	2,284,457

TABLE 27—Concluded

Name of operator	Name or no. of mine	Location of mine		Year opened	Kind of opening and depth of seam				Thickness of seam	No. of seam	Total tons of coal produced
		Post office	County		Shaft	Slope	Drift	Strip			
Sahara Coal Co., Inc.	No. 16	Harrisburg	Saline	1940		200′			6′	5	5,083,492
Saxton Coal Corp.	New Castle	Carrier Mills	Saline	1953				32′	3′4″	3	54,232
Panther Creek Mines, Inc.	Peanut No. 2	Springfield	Sangamon	1900	200′				5′	5	3,201,563
Panther Creek Mines, Inc.	No. 1	Auburn	Sangamon	1918	270′				7′6″	6	7,417,503
Fairview Collieries Corp.	Harmattan	Danville	Vermilion	1949				76′	5′10″	7	3,314,198
V-Day Coal Co.		Danville	Vermilion	1945		308′			6′	6	437,586
‡Bois Coal Co.	Kuhn	DuBois	Washington	1865	300′				5′8″	6	1,187,802
Wilmington Coal Mining Corp.		Braidwood	Will	1934				70′	3′4″	2	2,766,404
Bell & Zoller Coal Co.	Buckhorn No. 2	Johnston City	Williamson	1944		240′			7′8″	6	5,106,898
Bell & Zoller Coal Co.	Zeigler No. 3	Zeigler	Williamson	1948		162′			8′	6	3,377,562
Blue Bird Coal Co.	No. 7	Harrisburg	Williamson	1946		185′			4′2″	5	1,855,754
Blue Bird Coal Co.	No. 8	Harrisburg	Williamson	1948		175′			4′2″	5	740,405
Blue Ribbon Coal Co.	No. 3	Marion	Williamson	1943		64′			4′	5	57,262
Carmac Coal Co.		Marion	Williamson	1948		100′			4′	5	1,730,132
Crab Orchard Coal Co.		Marion	Williamson	1939		80′			4′8″	5	241,876
Crystal Block Coal Co.	No. 1	Marion	Williamson	1936		165′			5′10″	6	304,004
Delta Collieries Corp.		Marion	Williamson	1935				45′	5′1″	6	9,401,687
Forsyth-Williamson Coal Co.		Carterville	Williamson	1946				45′	3′6″	5	1,285,210
Freeburn Mining Co.	Freeman No. 3	Marion	Williamson	1947	216′				8′6″	6	4,096,123
Freeman Coal Mining Corp.	No. 4	Marion	Williamson	1951		275′			7′4″	6	800,809
Green Valley Coal Co.		Marion	Williamson	1938		76′			4′8″	5	363,357
Harrisburg Coal Co.		Marion	Williamson	1950		125′			4′2″	5	46,640
Helm Coal Co.	No. 3	Marion	Williamson	1934		71′			4′6″	5	57,301
Little Creek Coal Co.		Eldorado	Williamson	1944		72′			4′6″	5	477,110
McLaren Equipment Co.		Marion	Williamson	1948				25′-35′	8′	5	96,872
M. C. M. Coal Co.		Marion	Williamson	1948				35′	7′6″	6	37,302
Moore & Son Coal Co.		Marion	Williamson	1933		110′			4′4″	5	606,152
Morgan Mines, Inc.		Herrin	Williamson	1947				40′	3′6″	5	2,122,512
New Black Crystal Coal Co.	No. 1	Marion	Williamson	1948		120′			4′2″	5	126,471
Parton Coal Co.		Creal Springs	Williamson	1951		160′			4′4″	5	18,880
Parton Coal Co.	No. 2	Marion	Williamson	1947		100′			6′6″	6	38,076
Pickford Coal Co.	No. 2	Marion	Williamson	1948		130′			4′2″	5	24,810
Polinski Coal Co.		Marion	Williamson	1948				25′	4′	5	28,228
Pure Coal Co.		Cambria	Williamson	1949		74′			8′	6	178,974
R. Y. W. Coal Co.		Marion	Williamson	1948				20′	7′	6	23,245
Schull & Moake Coal Corp.	No. 2	Marion	Williamson	1943		130′			9′	6	438,586
Stonefort Corp.	Will Scarlet	Stonefort	Williamson	1953				25′	3′2″	2	71,900
Strobel Coal Co.		Marion	Williamson	1944		70′			4′4″	5	79,229
Sunny Brook Coal Co.		Marion	Williamson	1940		270′			4′4″	5	376,974
Unity Coal Co., Inc.	No. 1	Marion	Williamson	1936		126′			4′4″	5	207,344
Wilkins Coal Co.	New Spillertown	Marion	Williamson	1949		86′			4′	5	152,209
Wilkins Fuel Co.	No. 1	Marion	Williamson	1950				35′	7′6″	6	1,443

‡ No record of production from 1865 to 1882.

Chapter III

LEGISLATION AFFECTING THE COAL INDUSTRY

When the Constitution of 1848 was adopted, coal mines had not been developed sufficiently to arouse in the public mind the necessity for legislation looking to the health and safety of those engaged in the industry, and, therefore, no authority being given in that Constitution, the Legislature was powerless to enact such laws.

However, when the Constitutional Convention met in 1870, the industry had been developed to a degree where legislation was demanded. The convention, realizing the need of safeguarding the lives and health of the men employed in the mines, embodied in the new Constitution this provision:

ARTICLE 4, SECTION 29

> "It shall be the duty of the General Assembly to pass such laws as may be necessary for the protection of operator miners, by providing for ventilation, when the same may be required, and the construction of escapement shafts or such other appliances as may secure safety in all coal mines, and to provide for the enforcement of said laws by such penalties and punishments as may be deemed proper."

Pursuant to this provision of the Constitution, the Legislature in 1871 passed an Act providing for inspection of mines by county inspectors and all reports to be made to county boards.

This law was unsatisfactory, and agitation for its amendment soon began. In 1872, Walton Rutledge (see Chapter VI) was chairman of a committee of miners which prepared a bill making the county surveyor ex officio inspector of mines, which became a law, but proved unsatisfactory, and the next session it was amended, giving the county board the right to appoint inspectors in their respective counties. Other laws relating to the management, construction and improvement of mines were enacted between 1871 and 1883, but did not prove adequate to the requirements of the industry. The greatest dissatisfaction seems to have been in regard to the inspection service, and there was much sentiment created in mining circles in favor of State supervision. Consequently, when the General Assembly met in 1883, a bill was introduced amending the law of 1879 and prior years and practically revising all the laws regarding the mining industry. This bill was finally enacted into law and became effective July 1, 1883.

The main provisions of these laws are summarized and shown by sections.

Sec. 1—Provides for survey and map of mine to be made.

Sec. 2—Inspectors empowered to have maps made.

Sec. 3—Escapement shaft or other place of egress must be made.

Sec. 4—Amount of ventilation required. When furnaces may be used.

Sec. 5—Bore-holes required.

Sec. 6—Requiring signals between top and bottom, cage covers, safety catches, and forbidding women and children working in mines.

Sec. 7—Defines character of engineer, and use of cages.

Sec. 8—Provides for examination of boilers, the fencing of shafts of abandoned mines, and places of refuge.

Sec. 9—Reporting accidents to the mine inspector, and defining the duties of inspectors.

Sec. 10—Penalties prescribed.

Sec. 11—Division of State into five inspection districts. Appointment of district inspectors. Qualifications of inspectors. Salaries of inspectors. County inspectors.

Sec. 12—Duties of inspectors, removal of inspectors. Bond of examiners.

Sec. 13—Authority of inspectors.

Sec. 14—Remedies for injuries received.

Sec. 15—Penalties for misdemeanors of miners.

Sec. 16—Timber for props.

Sec. 17—Repealing inconsistent Acts.

Sec. 18—When buildings to be rendered fire-proof.

Sec. 19—Miners must use copper needles and copper tips on tamping bars.

AN ACT TO PROVIDE FOR THE WEIGHING OF COAL AT THE MINE

(In force July 1, 1883)

Sec. 1—Scales to be provided at the mines.

Sec. 2—All coal must be weighed at the mine.

Sec. 3—Check weigher may be employed, must be an employe, and have a written permit.

Sec. 4—Penalty.

The Thirty-fourth General Assembly, 1885, amended Section 3 of the law by providing for equipment of escapement shafts, right-of-way for underground connections. Section 4 was amended, increasing the amount of ventilation required and provided for the removal of men from dangerous workings.

The Act to provide for the weighing of coal at the mines was amended, requiring a record to be kept of all coal mined, adding to the penalties for violations and enacting a new section (5), which provides for the nullification of all contracts for mining coal in which the weighing of coal was dispensed with.

In 1887, the Legislature amended the law by adding a paragraph to Section 4 which required all mines to be examined every morning by an agent of the proprietor. Section 6 was amended, requiring a topman and bottomman to attend to signals. A code of signals was also adopted. An amendment to Section 8 provided for a traveling way at the bottom of the shaft.

The General Assembly, in 1891, enacted a law which provided for the examination of applicants for mine manager by the Board of Examiners and prohibited the employment of anyone as mine manager, in any mine equipped for shipping coal, or any mine whose output may be twenty-five tons or more per day, after January 1, 1892, unless such person has first obtained a certificate of competency or a certificate of service from said Board of Examiners.

In 1895, the law was amended dividing the State into seven districts with an inspector for each district and providing for the examination by the State Board of Examiners of applicants for fire bosses and hoisting engineers, and prohibiting, after July 1, 1896, the employment of anyone as such without first obtaining a certificate of competency or service from said Examining Board. Certificates of competency were good at any mine in the State. Certificates of service were valid only at the mines where the persons employed had been in continuous service for one year, or more. On April 19, 1906, the Examining Board, by resolution, provided for the issuing of mine managers' certificates of the first and second class, the first class certificates to apply to all mines in the State and the second class to apply to mines employing less than ten men.

A bill was passed in 1897, approved June 3, in force July 1, 1897, which required the payment in lawful money of the United States for all coal mined and loaded into the mine car. This law did away with the "truck-store" and gave the miner pay for the gross weight of his product.

In 1899 a general revision of the mining law was enacted. Much that was ambiguous and inconsistent, resulting from numerous amendments of the old law, was eliminated and many changes and some new features were added. These changes included the elimination of the State Board of Examiners and in lieu thereof provided for a board to be appointed by the Commissioners of Labor and known as the State Mining Board. The name "Fire Boss" was changed to "Mine Examiner" and provision made whereby certificates of service might be exchanged for certificates of competency. This provision applied to hoisting engineers as well as to fire bosses.

The law required all mines, regardless of their capacity, to be in charge of certified mine managers, mine examiners and hoisting engineers; it gave the Board of Labor Commissioners the power to change inspection districts and provided for the necessary traveling expenses of the inspectors and their compensation to be paid by the State, instead of the fee system, which require the owners of mines to pay a fee, varying from $6.00 to $10.00, according to the size of the mine and the number of men employed for the inspection; authorized the appointment by the Board of Supervisors, or County Commissioners, of county inspectors of mines in all counties of the State in which coal is produced. In the former Act, county inspectors were authorized only in counties producing 800,000 tons or more annually. The law, as amended, became effective July 1, 1899.

The Legislature, in 1905, passed what is known as the Shot Firers' Law. This law required shot firers to be employed and paid by the coal companies in certain specified mines.

Provision was made at this session for the division of the State into ten districts with an inspector for each district.

An amendment was passed in 1907 giving the Governor the power to appoint the State Mining Board. Prior to this time this power was vested in the Commissioners of Labor.

A special session of the Legislature in 1908 passed a bill which received the Governor's signature and became effective July 1, 1908, creating, in all counties of the State where coal mining is carried on, a board to be styled the Miners' Examining Board. This board was to be appointed by the circuit judge of the judicial district in which such county was located and was authorized to hold meetings in their respective counties and pass upon the qualifications of all applicants as to their competency to mine coal. The law prohibited the employment of all applicants as to their competency to mine coal. The law prohibited the employment of anyone as a miner who did not have a certificate of competency issued by the board.

In 1909 a bill was passed, approved June 8, which required the trustees of the University of Illinois to establish, in the College of Engineering, at the university, a department of mining engineering for the purpose of training young men for efficient work in all phases of the mining industry. This session also passed an Act creating the Mining Investigation Commission and amended the Miners' Qualification Act by providing for the appointment of the board by the county judge of each county.

The Legislature, called in special session early in 1910 by Governor Deneen, in response to public sentiment for relief and remedial legislation in consequence of the Cherry mine fire, which occurred in November of the previous year, passed a bill, which became law, providing for fire-fighting equipment in coal mines and mine fire-fighting and rescue stations in coal fields. This Act was approved March 4, 1910, and went into effect July 1 of that year.

The regular session of the General Assembly, which convened in January, 1911, made a general revision of the mining law, amended several sections of the Mine Fire Rescue Stations Law and passed an Act regulating the character of black blasting powder. Prior to this time the duty of collecting, compiling and tabulating the reports of operators, known as the Annual Coal Report, was under the supervision of the Bureau of Labor Statistics. This work was transferred to the State Mining Board and an amendment passed providing for twelve inspection districts with an inspector for each district.

In 1913 the law of 1908 creating the Miners' Examining Board was amended, providing for a commission consisting of three members, to be appointed by the Governor, their salaries to be paid by the State; the board to hold at least twelve examinations in as many places in the coal fields each calendar month. No person was allowed to work at the face without first obtaining a certificate of competency so to do by satisfactorily passing the test prescribed by the board. The next session enacted an amendment allowing, until July 1, 1916, an exchange of certificates issued by any county board for one issued by the State board. The 1913 session also enacted a law requiring wash-rooms to be maintained at all coal mines in the State and a law regulating the character of permissible explosives.

The Fiftieth General Assembly, in 1917, passed what is known as the Civil Administrative Code, consolidating the executive activities of the State under nine departments. All matters relating to the mining of coal and other minerals were placed under the Department of Mines and Minerals, the executive officers of which are: Director and assistant director, a Mining Board, consisting of four members and the director of the Department, and a Miners' Examining Board of four members. The law became effective on July 1, 1917, and on that day Evan D. John assumed the duties of director and Martin Bolt, assistant director. The Department was then organized into four divisions:

General Office.
Inspection.
Miners' Examination.
Mine Rescue and First Aid.

The law gave the Department power to inquire into the economic conditions affecting the mining, quarrying, etc., of metallurgical, clay, oil and other mineral industries, and in compliance with this provision, a new division was created, known as the Division of Economic Investigation.

In 1919 an additional mine inspector was provided for in the appropriation made to the Department, and designated as inspector-at-large.

The Fifty-second General Assembly, in 1921, passed an Act, which became effective January 1, 1922, governing the operation of metal mines and provided for an inspector of these mines. This office was placed under the jurisdiction of the Department of Mines and Minerals and the Division of Fluorspar Inspection was created. An Act to regulate the use of electricity in the mines was also passed at this session and became effective July 1, 1921.

Two additional rescue stations, one at Belleville and one at Johnston City, were provided for by Act of the Legislature in 1927 and were equipped and in operation within a few months.

The 55th General Assembly of 1927 amended an Act to provide that powder used shall be in form of cylinders or pellets. Powder in granular form shall have a specific gravity of not less than 1.70, instead of 1.74, and powder in cylindrical or pellet form shall have a specific gravity of not less than 1.45 nor more than 1.90.

It also defined different grades of powder.

In 1933, the General Assembly re-established the Mining Investigation Commission created by the 46th General Assembly April 19, 1909, and reaffirmed by each succeeding General Assembly. This commission consisted of three coal miners, three coal mine owners, and three persons who are not interested in mining, to be appointed by the Governor. Said commission investigates the methods and conditions of mining, with special reference to the safety of human lives and property and the conservation of coal deposits. The 1933 Act gives the commission the power to subpoena. Reports and recommendations of the commission shall be made to the Governor and to the General Assembly at its next regular session. Compensation of $10 per day shall be paid to each of the non-mining members of the commission for each day they are actually engaged in the commission's work. Provides for the expenses of the commission and appropriates $8,000 to carry out the provisions of the Act. The Department of Purchases and Construction shall furnish said commission with all necessary printing.

In 1935, the Mines and Mining Act was amended, requiring an accurate map or plan to be made of each mine on the scale of 400 feet, instead of 200 feet, to the inch. The amendment also requires a copy of such map of an abandoned mine to be filed with the Department of Mines and Minerals within 90 days after its closing, which map is to be kept as a public document.

The Act relating to fire fighting equipment and prevention of fires in mines was made applicable to mines employing three or more, instead of ten or more men.

The General Assembly in 1939 passed an amendment that divided the State into fourteen inspection districts with one inspector for each district, and provided for an additional inspector-at-large for the State.

In 1941, an Act was passed, providing that where coal dust exists in quantity and character sufficient to constitute an explosion propagating hazard, rock dust shall be applied and maintained in each entry extending from the third cross-cut from the working face at least 1,000 feet out by in each working section. Rock dust shall be applied by coating of roof and ribs or suspended bag installation, as chosen by the management, in such manner as to be dispersed in a cloud if an explosion should occur in the vicinity. The quantity of rock dust shall be sufficient that when mixed with the entry dust of 20 mesh fineness the mixture shall be at least 55% incombustible dust. The quality and mesh of rock dust used shall be as prescribed by the State Department of Mines and Minerals. Rock dusting shall be started at once and completed, as herein provided, on or before July 1, 1942. New mines where coal dust exists, as herein provided, shall be rock dusted as mine develops, and rock dusting maintained to the shaft bottom or entrance.

In 1943, several sections of the mining law were amended. Requirements were fixed for applicants for certificates of competency for State Inspector of Mines and for Mine Manager, Second Class. The mining board was authorized to grant permits for the operation of internal combustion engines and to limit the period of such permits. It also required the State Mine Inspector to investigate the condition of the ventilation of one room of each entry in pillar and room mines and in the last room of each division in long-wall mines. The operator of every mine was made responsible for providing and maintaining ample means of ventilation and furnishing a constant and adequate supply of pure air for the employees.

The new law designated the quantity of air for cubic feet per minute for each person employed, and the manner in which stoppings of air courses in mines shall be constructed. It also required ventilation fans to run both day and night in all operating mines and a recording pressure gauge to be maintained in connection with each fan at all times. It repealed the following provisions: That refuge places be whitewashed not less than once every six months; that the requirement of having bumpers on cars not apply to mines employing ten men or less, and the requirements concerning illuminating oil used in coal mines, providing that such illuminants shall conform to the specifications prescribed by the mining board. Every mine operator was required to keep always on hand a sufficient amount of properly constructed stretchers, woolen and waterproof blankets and splints, and a suitable supply of first aid equipment in good condition, ready for immediate use for binding, covering and caring for anyone who may be injured in the mine.

This General Assembly amended an Act regulating the character of black blasting powder, whereby all black powder in granular form sold for use in coal mines in this State shall have plainly stamped on the keg or package in which it is contained the letter showing the size of granulation.

Another amendment required the State Mine Inspector to make a personal examination at least once every three months (previously six months) of each mine in his district, in which ten or more men are employed. It also specified that every mine in the State be examined at least once every three months (previously two) by either the State or County Mine Inspector.

In 1945, a commission was created, consisting of two members of the Senate, two members of the House, and two members appointed by the Governor to conduct a demonstration-test program for the investigation of and experimentation with Illinois coal and coal products for the purpose of determining the commercial feasibility of methods having commercial possibilities and promise. Appropriated $80,000 to the commission for this purpose. Commission was to report to the Sixty-fifth General Assembly.

Legislation in that year also provided that every mine in the State be examined at least once in every two months by either a State or a County Mine Inspector.

Legislation in 1947 requires the publication of a list of candidates who have passed an examination for mine inspector and specifies that the appointment of mine inspectors from such list be made by the mining board instead of by the Governor. It also provides for the examination of every mine at least every thirty days (previously two months) by a State Mine Inspector.

This General Assembly prohibits mine inspectors and all officials and employees of the Department of Mines and Minerals from soliciting political campaign contributions or gratuity of any kind or character from any mine inspector, coal sales company or their agents.

Since 1947 the State has been divided into twenty-two inspection districts, and the two inspectors-at-large give additional help in inspection and training whenever and wherever needed.

Nineteen forty-seven legislation prohibits the operator of any mine to employ as a face boss after July 1, 1948, any person who does not hold a certificate of competency as a mine examiner. After December 31, 1947, the minimum amount of air in the last open cross-cut on the entry shall be a minimum of 6,000 cubic feet a minute. The minimum permissible amount of oxygen in the air to be found in the last open cross-cut in any set of entries shall be 19.5% oxygen by weight and not more than 1% methane in air shall be permitted outby the last working place in the return air course on any split of air. The manner of rock dust application is prescribed.

Provision is made that the determination of gas content shall be taken outby the last working place on each split of air in the air current; if such sample contains 0.75% or more of methane gas, the mine shall be classified as gaseous; that in all mines classified as gassy mines by the State law, it shall be compulsory to use closed lights, and smoking shall be prohibited. Furthermore, where slabbing, arc-wall, short-wall, or shearing machines are used in cutting coal and which raise an excessive amount of coal dust into the air in the opinion of the State Mine Inspector, water or water with a wetting agent added to it, or other effective methods, shall be used to allay such coal dust at its source. In all new mines starting operation after July 1, 1947, each main fan shall be installed on the surface and housed in a fire-proof building with suitable automatic devices to sound an alarm when the fan stops. If such fan is operated by electricity, it shall be on a separate independent circuit.

A 1947 amendment also designates the manner in which blasting is to be done in non-gaseous mines and gaseous mines and hand-loading mines, and prohibits detonating of explosives while men are in the mines, except for such personnel as is necessary to do such detonating.

The year 1951 brought a revision of the law whereby, if an applicant for a certificate of competency as a mine examiner is a graduate mining engineer from an accredited mining college, two years of his college work will be accredited on the four years experience required for such certificate.

An amendment permits the breaking down of coal while men are in the mine if such breaking down is done by the use of compressed air or by a mechanical or chemical-mechanical device which does not emit spark or flame. It provides that in any place where men are working, the total concentration of carbon monoxide or other noxious gases shall be within the established safe limits when ventilation is as specified under Section 14 of the General Mining Law.

SUMMARY OF THE 1953 COAL MINING ACT

In 1953 the General Assembly amended an Act which provides that any statute which by its terms is to be administered by the State Mining Board shall be administered by said board without any direction, supervision or control of the Director of Mines and Minerals except such as he may exercise by virtue of being a member of the board.

New legislation made mine managers' duties and responsibilities more specific. It also changed the manner and form of examination of mines. In gassy mines, places must be examined within four hours rather than six hours.

Many safety precautions were added for the use of compressed air for blasting. Operators were required to immediately notify the Department of Mines and Minerals whenever an explosion occurs.

New provisions were made concerning hoisting in mines. When men are hoisted or lowered by cage, the cages must have safety chains or bars across the ends of the cage. Self-dumping cages must be securely locked while hoisting men. Floors of cages must be adequate to carry the load and must not have any holes that a foot or body could enter.

Several safety measures were added to electricity regulations and to explosives regulations. Fire prevention and control were completely revised and responsibility of enforcing the added safety regulations was placed on the mine manager.

Haulage and transportation likewise had many safety regulations added.

With regard to rock dust and coal dust, revisions provided that coal dust and other combustible materials should not be permitted to accumulate and that rock dust be applied to within 40 feet of the working faces, rather than 60 feet as under the old law.

Further provisions of the 1953 legislation were that timbers removed by mining machines be promptly replaced and that, where methane is present in any ventilating current, the 65% of incombustible content of such combined dust shall be increased 1% for each 0.1% of methane.

ADDED VENTILATION REGULATIONS

1. When air contains more than 1% of methane at a working face, changes or adjustments shall be made at once in the ventilation to reduce such content to less than 1%.
2. Same shall apply to any split of air returning from active underground working places.
3. If a split of air returning from active underground working places contains as much as 1.5%, the men shall be withdrawn from that portion of the mine and all power shall be cut off from such portion of the mine until the quantity of methane in such split shall be less than 1.5%.
4. A mine inspector shall classify a mine as gassy if methane is detected by him in the amount of 0.25% in any workings of a mine at a point of not less than 12 inches of the roof, face, or rib, rather than 0.75% under the old law.
5. A recording pressure gauge shall be attached to the ventilating fan or fans of all mines at all times.
6. (1) When the ventilating fan at any mine fails or stops, immediate action shall be taken to cut off the electric power and withdraw the workmen from the face regions of the mine.
   (2) In gassy mines, if the ventilation is not restored within a reasonable time, all underground employees shall be removed from the mine.
   (3) The ventilating fan shall be inspected daily.
   (4) Booster fans may be used by specific permission from the State Mining Board only, and under certain regulations.
7. In gassy mines all abandoned workings shall be either sealed or ventilated.
8. In gassy mines worked by the so-called "enclosed panel system" where rooms are driven off of both sides of the panel entries and ventilated by one side of the panel as the intake airway and the other side as the return, the following shall govern the method of working this type of panel: When the top end or inby end of the panel begins to squeeze, work or move as the result of extraction of coal and the area cannot be examined,

men working in the said panel and rooms shall be removed until movement has abated and the presence of gas cannot be detected with a permissible flame safety lamp. However, if in such panels fire, barrier or cutoff pillars are left in the center of the panel of adequate thickness and the entries have been sealed in line with the pillars with adequate roof support on the inby side of the seals isolating the worked out area from the live works, then mining operations may be resumed. This shall not apply to panels worked with rooms on the intake side only, or panels with bleeder entry system whereby the gas released in the squeezed area will not contaminate the ventilating air current used to ventilate active workings within the panel.

9. In a gassy mine, air that has passed through an abandoned panel which is inaccessible for inspection, or air that has passed through a similar abandoned area which is inaccessible for inspection, or air which has been used to ventilate a pillar line, or air which has been used to ventilate an area from which the pillars have been removed, shall not be used to ventilate any active face area in such mine; but if this section cannot be complied with in such mine on the effective date of this Act, such mine may continue to be operated after such date as it was operated immediately prior to such date, for a reasonable time until future mine development and ventilation of such mine can be changed to comply with this section. In no event shall such air be used to ventilate any area in such mine in which men work or travel if such air contains more than 1% of methane.

For the development of legislation affecting the separate divisions of the Department of Mines and Minerals, new laws and existing laws affected will be found at the end of chapters in this compilation, devoted to the various sections of operations.

DISASTERS

Chapter IV

MINE DISASTERS

HISTORY OF, LIST OF, SUMMARY

In this chapter a brief account of the disasters which have occurred in the mines of the State, so far as we have the records, is given.

Some of these, because of the awful toll of human life and the unusual cause of the calamity, are given more fully than the others. Only those "accidents" where more than two were killed at one time are classed as "disasters."

THE DIAMOND MINE DISASTER AT BRAIDWOOD

(Copied in part from the Coal Report of 1883)
(See Appendix B of that Annual Report or Page 68 of the 1882-1930 Compilation)

The most conspicuous event which has occurred during the year or which has ever marked or marred the annals of coal mining in this State to this time, was the calamity which befell the Diamond Mine, and the miners in it, at Braidwood, in February last. At this place, by the sudden precipitation of a sea of surface water into the workings of the mine, in the middle of the day, 69 men were engulfed and miserably perished; 39 women were made widows; 93 children were made fatherless, and the mine itself and its owners were involved in common ruin.

The history of coal mining in all times and countries presents a deplorable record of sudden death and disaster to coal miners. Laws have been framed, and warnings uttered, and one precautionary measure after another has been taken to reduce to a minimum casualties in mines, but the inherent peril of the business continues to produce its average of victims. Individual cases of violent death are still familiar events in all mining communities, and at intervals, happily not frequent, some great calamity is chronicled, involving horrible death to a mine full of people. Heretofore, however, these cases have occurred in distant states or countries, where mines have been deeper or gases more prevalent, or dangerous conditions more generally recognized than in our western mines. But the Diamond Mine was in the midst of one of our most populous communities, the workings were near the surface, free from explosive gas, and with several places of egress in case of fire or accident in the main shaft, yet, notwithstanding these conditions, it became suddenly, though not without warnings, which should have been heeded, the scene of a catastrophe, which has had no parallel in the west, either in its character or fatal consequences.

Although the principal features of this event have become widely known through the press, we take occasion to present here a simple record of the case, gathered from those most familiar with the circumstances. In this we have been especially assisted by Mr. Cumming, mine inspector of the third district, who has been for many years a resident of that part of the State.

The topography of the county in which the Diamond Mine was located, is known to be in general very level and low. The seam of coal is thin, and near the surface, and one of the chief sources of expense in mining it is the handling of the great quantities of water which continually accumulate in the workings. Its proximity to Chicago, alone, gives to this coal field its special value, and it is doubtful if the necessary capital would be found to develop it were it not the nearest coal to the largest market in the west. There is said to be ten square miles of this level and marshy tract upon which the Diamond and other mines are located, and it is all so flat that no natural drainage is locally possible, and ordinarily all accumulations of water lie upon the surface until absorbed or evaporated. Even when thrown out of the mines with pumps it has no alternative but to find its way through the soil back again. Another feature of the situation is that all the coal in this field is worked on the long-wall system, and as fast as the mineral is removed the surface comes down with the roof, and consequently makes a loose, irregular break all along the face of the workings, particularly susceptible to the action of water, and leaves in general an uneven and treacherous surface for water to stand upon.

For several days prior to the 16th of February, 1883, there had been a general thaw in the vicinity of Braidwood, accompanied by warm rains, which reduced the winter's snow to water and swelled it to a flood, which overspread the entire surrounding country. That this was an unusual condition of things, is not claimed. Water in similar quantities had accumulated and stood upon the surface there before. On several occasions in former years, surface water had found its way into the mine, and two years previously it had broken through in such quantities as to create general alarm. In this case it is stated only that the volume of water was not greater than usual. Its depth is given as from one to three feet, but whether it was more or less, would seem hardly to affect the gravity of the situation. It was spread like a sea over the entire face of the country, and constituted an open menace to every mine in the vicinity. That it was regarded as an element of danger, is shown by the action of the superintendent of an adjacent mine, who prohibited the men from going into his works, and ordered out those who had gone down before his arrival. Yet the men of the Diamond Mine went below that morning, as usual, and with only 54 feet of sand and surface drift between them and an untold weight of water, began their day's work—which they never finished.

At about 11 o'clock in the morning the "cager" at the bottom of the main shaft discovered an unusual amount of water flowing to the bottom, and sent word to that effect to the men at the different working places, by the drivers who came to the shaft with their loaded cars. Being still uneasy about it, he came to the top to ascertain if possible the cause of it. Making no discoveries, he descended the shaft again, and reaching the bottom found the volume of water already so great that he had difficulty in rescuing a boy, who had charge of a door near the shaft, with whom he at once ascended again to the top. By this time those who had taken the alarm were clamboring out by the escapement shaft, and the mine was now filling so rapidly that those who failed to receive the alarm, or were at too great a distance from the shaft, were speedily and hopelessly shut off from all escape whatever. The point at which the break-through took place is on the eastern boundary of the workings, while the principal working place was at the western extremity—the main or hoisting shaft being midway between them. In this, as in other mines, the main shaft was located in the dip, or lowest point of the coal, so that all water which accumulated in the mine could flow to the shaft, and then be raised with pumps to the surface. The depth of the old air-shaft, near the break, was 68 feet, that of the main shaft was 84 feet, and that of the escapement 75 feet. The first rush of water was consequently to the bottom of the main shaft, that being the lowest point, and all escape at that point would be shut off some time before the outer galleries of the mine would be filled. It is probable, therefore, that no water would reach the working places on the west boundary until it was really too late to make any escape except by the escapement shaft. The bottom of this shaft being nine feet higher than that of the main shaft, it would afford an opportunity for egress after it was no longer possible to reach the bottom of the main shaft. To this point those who did escape made their way, and at this point the last desperate struggle of those who barely escaped was made, and, groping for this outlet in despair, having almost reached it, twenty-two men awaited and accepted their doom.

Unhappily there was a fatal defect in the construction of the roadway leading to this escapement shaft, which proved full of fatal consequences. At a short distance from the bottom of this shaft there was a dip or declivity in the roadway, followed by a corresponding rise, and creating a hollow about fifteen yards in length. Of course this hollow would be filled with water to the roof, while the road on either side of it was still out of water, and thus the advantage of the higher ground at either end would be neutralized and lost. It will be seen by statements made hereafter by those who escaped last by this route, that they had to dive or plunge through this fifteen yards of water in order to reach the bottom of the escapement shaft. Had such an emergency as this been foreseen or anticipated, it would have been a simple matter to have taken down the top and filled up this road to a uniform level, thus affording safe egress, possibly, to the entire working force, before being finally overtaken by the water. Another complication arises in all such cases as this, from the doors set across the roadways for the purpose of directing and controlling the currents of air. One of these doors being closed, with the weight of a body of water against it equal to its own dimensions, would constitute a barrier as impassable as a wall of rock—and so, doubtless, many desperate men found it. Those who did escape had their most dreadful struggle with the doors leading to the escapement gallery, and the location at which the bodies of twenty-two others were found indicates that they may have had a similar struggle in vain.

It will thus be seen that when this sea of surface water began its headlong rush into the cavities of the Diamond Mine, it first closed the exit by the main shaft, then by the escapement shaft, and then hermetically sealed the doors, and took possession of the more remote recesses of the mine at its own deadly leisure.

As soon as the nature and extent of the catastrophe could be realized on the surface, active measures were proposed and taken for the rescue of those who were yet within the mine. These were, however, as brief as they were futile. It was as difficult to get into the mine as it was to get out. Mr. Skinner, the pit boss, descended the main shaft, but found only water, and the black damp so heavy as to put out his light. Two men, however, Harmon Unger and Blazius Shatzel by name, succeeded in making an entry by the escapement shaft, but they never returned. Their bodies were found afterwards among the twenty-two victims near the bottom of the shaft; and their widows and children and friends can only lament their fruitless heroism. This closed the chapter, and completed the death roll.

Some hope was at first entertained that there might be higher points in the mine to which the victims might retire and by some means maintain themselves alive until the water could be removed; but it was a forlorn hope, born of despair, and failed to sustain the most sanguine after a moment's reflection. The probability was greater that those who escaped drowning, if any there were, would perish with deadly gases, forced by the water from every crevice of the mine, within an hour after the mine was filled.

Such is a brief story of this terrible disaster. The next 5,000 words of the detailed report in the 1883 issue of our Annual Coal Reports (also copied in full in our 1930 Compilation) are omitted here since the foregoing two volumes are available in many libraries, including our own in Springfield and in each of our five Mine Rescue Stations. These volumes may be studied by those who wish to know the details of personal statements, the recovery of several bodies, the risks taken in an effort to recover all the bodies, the money spent in such efforts, and the national generosity to assist the families of the deceased. The total was $42,228.85. Illinois furnished $37,469.88, and eleven other states the rest.

An impressive monument of gray marble is now at the location. The Diamond Memorial Monument and Cemetery is situated two miles east of the main street of Coal City, and two and one-half miles northwest of Braidwood, on Illinois Route No. 113-S. It is under the supervision of Local Union No. 1147, United Mine Workers of America, Braidwood. On the monument is inscribed:

SACRED TO THE MEMORY OF OUR DECEASED BROTHERS WHO LOST
THEIR LIVES BY THE FLOODING OF THE DIAMOND MINE

Dedicated September 5th, 1898

On the lower part of the marble is a plaque listing the names of the men and boys who lost their lives. Below the plaque is the inscription

IN COMMEMORATION OF THOSE WHO DIED IN THE
DIAMOND MINE DISASTER FEBRUARY 16, 1883

Dedicated by The Braidwood Home Coming Association

September 6, 1926

The monument is well taken care of year after year by its donors. At the time of the disaster, the mine belonged to the Wilmington Coal Mining and Manufacturing Company.

The year 1883 was marred by another disaster in which 10 men lost their lives. This was the result of an explosion in the Coulterville Coal Company's mine, Coulterville, Randolph County. The history of this explosion has not been preserved, and merely the mention of the fact is all that can be given here, although recollections of miners some half a century ago recalled coke deposits along the passages and the new theory to them that coal dust would propagate an explosion started from any cause. Their recollection was that the origin of this explosion was a windy shot. Miners fired their own shots in those early days.

For the next 19 years the State was exempt from any calamity resulting in the death of more than two men at one time. The average number of fatalities for these 19 years was 61, the number ranging from 39 to 99. During the fiscal year 1903, however, five disasters occurred in which 29 men lost their lives. These disasters are as follows:

October 13, 1902, an explosion caused by a "windy shot" occurred in Victor Coal Company's mine, Pawnee, Sangamon County, in which three lives were lost. Two shots had been fired at the same time, about 4 o'clock p. m., which evidently produced the explosion, as the shots striking each other at right angles caused the gas to ignite from the flames. Five stoppings between the entries were blown out, permitting the expansion of the blast at the face of the entries, which was a very fortunate thing, as most of the miners had congregated at the bottom of the hoisting shaft, waiting to be taken out. This blowing out of the stoppings, giving vent to the flames and force of the explosion, no doubt saved the lives of the men congregated at the shaft bottom.

An explosion in the Auburn and Alton Coal Company's mine at Auburn, Sangamon County, occurred February 25, 1903, at 15 minutes to 7:00 o'clock p. m., and resulted in the killing of two shot firers and one driver. The explosion took place in the second working room, on the second south entry. This room was very dry and dusty; two large blasts had been fired in this room; one on the right hand side in the lower part of the coal seam, and the other in the top coal, that had been left up and back from the working face. Both of these shots had been largely over-charged with powder, and must have been fired almost simultaneously, as the blown coal was nearly all reduced to slack or fine coal.

The carbonic oxide gases given off by these shots took fire from the flame of the shots, the force of the blast raising the fine dry coal dust in the room, and with the dust from the shots, which also ignited, greatly intensified the explosion.

The flame from these blasts passed through a crosscut into the room adjoining, where other shots had been previously fired; the gases from these shots also took fire, which, with the force of the explosions and flames, passed out into the entry. Near the mouth of the room in which the explosion took place, and on the entry, a box containing powder was blown to pieces; the powder exploding greatly increased the force of the blast. Two mine cars standing on the entry were blown to pieces. The fan was blowing a direct current of air down the air shaft; about 16,000 cubic feet per minute was passing in the first and second entries; the force of the blast went against the current of air and forced the doors off of the top of the air shaft; fortunately, however, the fan was located back from the air shaft and was not damaged. The flames following the explosion passed out on the return entry for a distance of 600 feet; the bodies of the two shot firers and the driver were found at this point. The force of the explosion had evidently hurled these men a great distance along the entry, as their bodies were terribly mangled and burned.

EXPLOSIONS OF GAS AT THE MINE OF THE CARDIFF COAL CO., CARDIFF, LIVINGSTON COUNTY

The first explosion in the Cardiff mine, which occurred March 13, 1903, whereby three persons lost their lives, was caused by gas igniting at a gob fire in the old workings down the south slope, which had been abandoned over a year. The shaft is 240 feet deep to a 12 foot seam of coal; six feet lower there is a three foot seam. When the upper seam was worked out at this point, the south slope was commenced in the lower seam, and the rooms were driven at right angles to the rooms in the upper seam at the location of the gob fire in the lower seam. The strata between the two seams caved through, thus forming a chimney or draft for the fire.

There were 15 men in the mine when the explosion occurred, all at work building and repairing stoppings in the upper seam, intending thereby to smother the gob fire burning in the lower seam. The men were instantly killed by being thrown against the entry rib by the force of the explosion.

The second explosion occurred Sunday evening, March 15, about 5:20 o'clock. Six men were in the mine at the time, building and repairing stoppings.

W. H. Parker, superintendent, and Thomas Roberts, mine manager, with several others, volunteers, made preparations to go down the shaft; when about half-way down, the cage caught in the slides, owing to some broken timbers, caused by the force of the explosion. Considerable time was lost before the party reached the bottom of the shaft. The rescuing party followed down the back entry to the south slope, where the men had been working. They found the bodies of two men; further search was made for the other three men, but they could not be found. The party was forced to abandon the search at this time on account of the bad condition of the air.

Nine-thirty o'clock, Monday, the 16th, the third explosion took place. This was decidedly the most violent explosion that had occurred. The force of the explosion blew down the pulley wheels, and knocked down part of the tower at the air shaft and also forced through the end of the engine house. A. M. Michaels, head carpenter, was struck on the breast with a piece of flying timber, injuring him seriously; he died about noon the same day.

At 2:37 p. m., the same day, Monday, March 16, the fourth explosion occurred, the force of which blew the covering off of both shafts. The ditch, having been completed at this time, the water was let into the air shaft.

The fifth, and last, explosion occurred about 7:30 p. m. the same day; about half an hour afterwards smoke was discovered coming out of the hoisting shaft. The shaft timbers had been set on fire and all combustible material around the top works was burning.

The engine house was completely destroyed by fire, although it was covered with corrugated iron. The heat coming out of the shaft was intense, warping the steel tower and rendering it a total wreck.

About 11:30 p. m., the shaft timbers having been consumed by the fire, the shaft caved in, letting in the surface around the top for a radius of about 20 feet, leaving the tower hanging at an angle of about 45 degrees. The shaft and all property was a total loss and the mine has been abandoned.

Nine men lost their lives in these explosions.

March 23, 1903, a blast explosion in the mine of the Athens Coal Company, Athens, Menard County, killed six men.

A blast explosion occurred in the mine of the Sandoval Coal Company at Sandoval, Marion County, March 31, 1903, killing eight men. The explosion originated in the fifth west entry. The hole had been drilled, charged and fired by the night shift. When the shot was fired, the tamping was blown out without bringing down any coal. It was estimated that nearly 12 pounds of powder was used in this shot and it was charged in the solid coal. When the shot was fired, it blew out the tamping and caused the explosion. The force of this shot did not make a crack in the coal. When it is considered that the potential energy of one pound of powder is equal to 480-foot tons, it can readily be understood the force and destruction that would follow the exploding of 10 or 12 pounds of powder when fired out of a hole facing a roadway. All the men killed and injured by this shot were on the entry, in direct line of the force from the shot, which accounts for the large number killed. Most of the men killed were on their way to the bottom of the shaft. Three of the men killed were sitting at the entrance of the entry where the explosion occurred; the stoppings on each side of the trap door were blown on to them, killing one instantly—one lived two hours—the other eight days. Five were brought out dead. Three drivers were seriously injured by this explosion, losing three months' time.

On May 11, 1904, occurred a terrific explosion of powder in the mine of the Big Muddy Coal and Iron Company, Herrin, Williamson County, which resulted in the death of ten men and the serious injury of twelve others. The cause of this explosion is not fully known, but it would seem that proper precaution had not been taken in sending powder into the mine, and the driver of the car containing six kegs ran into a live wire which was down, and the powder became ignited.

The fatalities from mine disasters during the fiscal year 1905 surpassed by far that of any previous year, with the exception of 1883. This year three distinct calamities occurred, resulting in a loss of 60 lives. On December 9, 1904, four men were killed as a result of a blown-out shot in the mine of the Eldorado Coal Company, Eldorado, Saline County. Owing to the fact that the inspector of this district, William Atkinson, lost his life the following April in the explosion at Zeigler, a detailed report of this accident was not made to this office—hence only a mention of the fact can be recorded here.

January 16, 1905, shortly after noon, a fire broke out in No. 1 mine of the Decatur Coal Company, Decatur, Macon County, which resulted in the death of six men. The fire was discovered in the mule stable and undoubtedly was caused by sparks from a pipe or a partially consumed cigarette. At the time the fire was discovered, about 60 men were in the mine, but by the prompt action of the mine manager in sending runners to give warning, all escaped but the six unfortunates referred to above. The alarm was immediately sent to the city fire department, which responded promptly, but, owing to the location of the fire so far underground, considerable time was consumed in preparing to reach it. By hard work, the fire was brought under control, several men were rescued and all the bodies recovered.

At 7:10 a. m., April 3, 1905, a violent explosion occurred in the Zeigler Coal Company mine, Zeigler, Franklin County. Forty-eight men were reported killed from the explosion and three asphyxiated during attempted rescue work. William Atkinson, the State Mine Inspector of this the seventh district, was called at once from his home in Murphysboro. Upon arriving below on the improvised sinking tub, two men were requested from the group working on the shaft bottom, busy then in the hoisting of bodies, to accompany him in his examination. These are the three, state inspector, mine examiner and miner, that died from afterdamp not far from the shaft bottom.

The mine was very new. No. 1 room on one of the first panels, when worked to its boundary, was used to store black powder. This, if not the origin of the explosion, added materially to the explosion force. Many fires resulted.

The fan had stopped and men were called out. However, a few worked at underground repair work, depending upon air from three air compressors. While this may have been adequate for the breathing of the 48 men and five mules in the mine, it is not possible to have been adequate with regard to gas.

Immediately after being informed of the explosion, Governor Deneen summoned the state inspectors and the members of the Mining Board, and requested them to proceed at once to Zeigler, make a careful and thorough examination of the premises and cause of the explosion, and report their findings to him. After making two visits, this commission submitted its report. In order to fully ascertain all the facts, the Governor, a few days later, delegated James Taylor, of Peoria, and John G. Massie, of Belleville, men of ability and long experience in mining affairs, to supplement the work of the others, each to make a separate investigation and report. The reports made by the different investigators are substantially the same and all agree in attributing the cause of the disaster to an explosion of gas.

For an exhaustive and detailed report upon this disaster, see pages 1 to 13, including two maps, in the 1905 Annual Coal Report.

December 22, 1906, a very deplorable accident occurred at the Breese-Trenton Mining Company's mine, Breese, Clinton County. Six men got on the cage to go to their working places to begin the day's work when, from some cause not given, the cage fell down the shaft 300 feet, killing all the men almost instantly, breaking legs, arms, and crushing their bodies in a horrible manner.

On the morning of January 29, 1907, an explosion of thirty kegs of powder in the mine of the Johnston City Big Muddy Coal and Mining Company, Johnston City, Williamson County, resulted in the death of seven men. The cause of the explosion, in the opinion of the State Inspector, was due to the rough handling of the powder by the men while unloading it from the car and placing it at convenient points where the drivers would pick it up and distribute it to different places in the mine. The majority of those killed were leaving the bottom, on foot, to go to their working places.

September 7, 1907, an explosion of gas occurred in No. 11 mine of the Dering Coal Company, West Frankfort, Franklin County. The night shift was putting in a stopping to close a body of gas; the stopping was nearly completed, causing the gas to back up against the decreasing current of air, when it was ignited by the lamp of one of the workmen. Twenty-two men were burned, of whom four died almost instantly.

The fiscal year beginning July 1, 1908, witnessed seven explosions in which a total of 46 men lost their lives. October 6, 1908, a powder explosion in the Harrisburg and Southern Coal Company's mine, Grayson, Saline County, burned three men so badly that they died the following day. The explosion was caused by igniting a piece of fuse and inserting it into a keg of powder, which was thought to be empty, exploding it and two other kegs partly filled.

On the evening of November 5, 1908, at the W. P. Rend Colliery Company's mine at Rend City, Franklin County, there occurred an explosion while four shot firers were in the mine. The explosion was so terrific that it put the two cages at the main shaft out of commission; shot the explosion cover off of air shaft, igniting several fires in the mine; the shaft being over 600 feet deep, it required the installing of a hoist at the air shaft before the lowering of supplies could start. State Inspectors Thomas Moses of Westville and Thomas Little of Murphysboro assisted in the rescue work until the bodies were found. After the shaft had been repaired, the Governor, Hon. Charles S. Deneen, sent the ten State Inspectors and the Mining Board to make an inspection of the mine and ascertain the cause of the explosion. The following is their report:

November 30, 1908.

Hon. Charles S. Deneen,
Governor of Illinois,
Springfield, Illinois.

Dear Sir:

In accordance with your directions, the undersigned inspectors of coal mines and members of the State Mining Board made a thorough examination of the coal mine owned and operated by the W. P. Rend Colliery Company at Rend City, Franklin County, Illinois. The purpose of said special examination was to ascertain the cause of the explosion which occurred in said mine at or about five o'clock p. m. on the 5th day of November, 1908, in consequence of which George Reed, John Holmes, Patrick Dailey, and Perry Stevens, employed as shot firers, lost their lives. The exploring party was led by Richard Newsam, President of the State Mining Board, and a record of observations made by Inspector Thomas Moses. Several tests with safety lamps were made on the roadways, at the face of the working places and particularly at the high points where falls of slate had occurred, but no evidence of gas was discovered. After reaching the face of the first northeast entry beginning with room No. 20, we proceeded down until room No. 8 was reached. As we approached that point, indications of serious disturbances increased—falls of slate and coal crushed from pillars—broken timbers—mining machines and pit cars completely destroyed. From the mouth of room No. 8 and continuing up to the face thereof, evidences of intense heat and fire on the roof and props was observable. At the face of that room we found several shots had been fired on the night of the explosion; in fact, they were the only shots fired in any of the rooms in that entry that evening. It furthermore appeared that the shots had been placed near to the top of coal, and as the seam of coal is much softer near the roof, much of it that was blown down was in a badly shattered condition. There is no question but that the direct cause of the explosion originated from these shots in the face of room No. 9, first northeast entry; that the placing of the shots so near the roof and the broken condition of the coal indicated an overcharge of powder, resulting in the generation and ignition of excessive quantities of carbon monoxide gas, aggravated by the presence of coal dust. In order to avoid a repetition of such disasters, we recommend that in all cases where coal is undercut with chain machines, the coal be snubbed or blocked down at not more than three, nor less than two feet from the bottom of the seam, and that all undercuttings produced by said machines be collected and loaded out before any shots are fired.

Respectfully submitted,

Signed by the State Inspectors of Mines and the
Mining Board.

THE ZEIGLER DISASTER

By W. S. Burris, *Inspector*

On the night of November 4, 1908, at the Zeigler Coal Company's mine, Franklin County, a trap door caught fire about 1,200 feet from the bottom of the shaft. The management fought this fire until 7:00 a. m. the next day, when the fire had traveled about 900 feet towards the bottom of the shaft, burning out one of the main overcasts, causing them to either seal up both shafts or have one of them consumed by fire. In a conference with Mr. Gordon, General Manager, and Mr. Blanks, Mine Superintendent, we agreed that the mine should be sealed for not less than ninety days, believing that with the air closed off it would extinguish the fire.

I was not called to Zeigler again until January 10, 1909. On that day an explosion occurred killing twenty-six men. On investigation I found that between my visit of November 4, 1908, and January 10, 1909, the management had failed to keep the mine sealed.

Two drill holes five inches in diameter had been put down and water had been pumped into the holes; also, live steam forced down the holes at different times.

The steam entering the mine through these drill holes caused the roof to cut and fall for about 30 feet above the top of the coal. The burning of sulphur was then tried and the fumes forced into the mine with a small high speed fan. On this date, January 10, 1909, I found the mine was still on fire below, as smoke was coming out of the return airway. The company had, on January 9, twenty-seven men in the mine cleaning up falls, building brattices and driving out gas that had accumulated in the mine. They were ventilating a pair of entries that had an accumulation of gas, and the return air from this pair of entries passed directly over the place where the fire of November 4, 1908, had originated. From the evidence I received, I believe that the air had rekindled the fire and ignited the gas as it passed out over it, causing the explosion whereby 26 men lost their lives, one man escaping. I had sent for assistance, and State Mine Inspectors Thomas Moses, Westville, Thomas Little, Murphysboro, and John Dunlop, Peoria, came to Zeigler January 11, 1909. After going thoroughly over the conditions, knowing there was a fire in the mine and all of the workings containing gas, we concluded the only thing to do was to seal the two shafts permanently until we were sure the fire was extinguished.

The company left the shafts sealed for a period of twenty-one days, then opened them and proceeded to make an inspection with the Draeger helmets. On February 9th, they had another explosion caused by a body of gas coming in contact with a fire in the mine. Three men lost their lives in this explosion.

Sixteen men were in the mine at the time of the explosion. Eight of them were standing on the bottom of the hoisting shaft, five were working on C air course, putting in a permanent stopping by the first crosscut. Mr. Wilson, superintendent, Mr. Core, mine manager, Mr. Powell, mine examiner, were on C entry going south. They had found considerable explosive gas and could go only about fifteen feet at one time, their object being to get inside of third west south and place a stopping at that point to seal off south side of mine permanently while exploring the north side. When within about sixty feet of the first west south, they both heard and saw an explosion which, in their judgment, had occurred beyond a large fall located inside of the third west south entry. They immediately said "Run for your lives!" and they had only gone about forty feet back in C entry when the wind and pressure from the explosion overtook them and they dropped to the bottom clutching the rail. After the explosion had passed back over them, they started to run again, went about sixty or one hundred feet, when a second explosion, more violent than the first, occurred. They lay down again and after this had passed back over them, they groped their way back in the dark towards the main shaft and from that time on it was more of a dream to them as they were almost unconscious. The men stationed on the bottom of shaft saw the flames coming out of B entry south side of shaft. Their statement agreeing with that of the men in C entry is good evidence that the explosion occurred on south side of air shaft and from gas that was driven over top of a fire which had generated after admitting air into the mine. Three men lost their lives in this explosion. All three of them were on the bottom of the main shaft. There had been considerable water pumped into this mine, used in fighting the fires and putting it on falls where they thought fire was located. There was about a foot of water on bottom of main shaft and none of the thirteen men that got safely out were burned. Two men that were brought out had been knocked into water and drowned. The air shaft had been lately equipped with 120 square feet of explosion doors. At the time of the explosion, these doors were released and the black smoke boiled out of the air shaft, this being the upcast, the main shaft being the downcast. The explosion was so terrific that the smoke even came up the downcast against the air current. Immediately after the explosion they speeded the fan up to 70 revolutions per minute, and the smoke hovered over the main shaft for a minute before the power could produce ventilation again. The men, being so close to the bottom of the main shaft and the restoring of ventilation so soon after accident, caused their lives to be saved. If they had been farther back in the workings, probably all lives would have been lost.

November 19, 1908, there was an explosion in the Benton Coal Company's mine at Benton, Franklin County. Six shot firers were in the mine at the time of the accident. Three of them escaped injury, but the other three were overcome by afterdamp from shooting "dead holes".

December 12, 1908, another explosion occurred in the W. P. Rend Colliery Company's mine from the same cause as that reported for the explosion of November 5. Three shot firers were killed.

On the night of February 16, 1909, there was an explosion in the Dering Coal Company's mine, West Frankfort, Franklin County. This explosion occurred about 5:00 p. m., while four shot firers were firing shots, and seems to have been caused by a windy shot igniting carbon monoxide gas, which started fires in the mine, and these formed a mixture that exploded at intervals of about two hours, rendering rescue work impossible. The mine was completely sealed and remained sealed 120 days. At the end of that time an investigation was made and, finding that the mine was still on fire, it was again sealed and the mine flooded. Four men lost their lives in this explosion.

THE CHERRY MINE DISASTER

This appalling calamity, which took place at Cherry, Bureau County, in the mine owned and operated by the St. Paul Coal Company, as reported by Thomas Hudson, State Inspector for the Second District, is described as follows:

"From the most reliable reports to be obtained, the fire commenced at or about 1:30 p. m., on Saturday, November 13, 1909. The place where the fire started was at, or quite near the landing place, in the airshaft, at the second vein, where the coal from the third vein is hoisted through said airshaft and taken off the cage at the second vein, and hauled around to the main shaft, recaged and hoisted to the surface.

"The cause of the fire, from information gleaned at the mine, was a pit car containing five or six bales of hay, intended for the third vein, was sent down the main shaft and hauled around in the second vein to the airshaft landing above mentioned. This pit car, containing the hay, was placed near, probably directly under, a blazing open torch, placed there to give light to the cagers, consisting of two men and a boy. The oil burned in this torch was quite likely kerosene; it is also very possible that some of the oil dripped from the torch and fell on the hay in the pit car; at all events, the hay is supposed to have caught fire from the torch, and certainly could have been easily extinguished if immediate steps had been taken to do so. The car of burning hay, however, seems to have been pushed around from one position to another in an air current having a velocity of about 700 feet per minute, until it had fired the overhead timbers. The car containing the burning hay was finally pushed into the shaft opening and fell into the "sump" at the third vein, where it was quickly extinguished; but the heavy pine overhead timbers at the second vein were by this time on fire and could not be reached because of the dense smoke; by this time the control of the fire was lost, and the result was the worst mine disaster of modern times.

Late Saturday night and early Sunday morning, November 14, the mine inspectors of Illinois began to arrive at the mine. The force was augmented later by mine inspectors from other states; one came from Indiana, two from Ohio, two from Iowa and one from Missouri. Professional experts from Pittsburgh and Champaign experimental stations, and about a dozen firemen from the Chicago fire department, were also on the ground. During the day, Sunday 14th, two men from Champaign, with helmets, succeeded in reaching the second vein through the air shaft in a sinking bucket, but could do nothing more as the smoke and steam were too dense for exploration. Both shafts were covered over and remained so during the night.

Monday, November 15: Men with helmets again descended the air shaft; they reported the temperature fairly comfortable but smoke and steam still too dense for active work. It was then decided to case the fan temporarily as an exhaust (the fan casing having been destroyed and the babbit metal melted out of the journals, when it was reversed from a blower to an exhaust during the early stage of the fire) start the fan and attempt a descent into the mine through the main shaft. This was done, and the main shaft uncovered. The air shaft now became the upcast, and men wearing helmets went down the main shaft, the cages in this shaft being in good working order; when they got to the bottom, or second vein, they found the fire raging and were forced to return to the surface; the fresh air admitted by making the main shaft the downcast had started the partially subdued fire into a blaze. Both shafts were then covered over, and remained so during the night.

Tuesday, November 16: Both shafts remained covered over during the day, which was spent mainly in taking the temperature of the mine by lowering a thermometer to the second vein, and in every case, the bottom of the main shaft at this vein was found too hot for work of any kind.

Wednesday, November 17: Temperatures were again taken and found to be about the same as on the day previous. A conference was held by the inspectors of Illinois with those from Ohio, Iowa, Indiana, Missouri and the mining experts from Pittsburgh and Champaign, also the representatives of the coal company. It was decided to again have men with helmets go down the air shaft; they descended about 9 p. m. and found the temperature more favorable and no fire in sight; of course men did not leave the sinking bucket when they descended. During the night a "float" or temporary cage was constructed for use in the air shaft, should exploration work be again attempted from that point.

Thursday, November 18: The main shaft was uncovered late that day, and a line of hose put down to the second vein, and fire fighting in earnest commenced; this was done principally from the north cage, as fire was blazing on the south and east sides of the shaft, which prevented firemen from leaving the cage. The men with helmets during the day went down the air shaft on the "float" and recovered one body that had been seen on a previous trip. Fire fighting was kept up constantly at the main shaft during the night.

Friday, November 19: Progress was made, advancing on the west side shaft parting at the second vein; four bodies were found and brought to the surface. The Chicago firemen were in charge of the fire fighting below. The east and south sides of the shaft bottom were inaccessible, owing to the heavy falls of roof and burning timbers, the west side of the shaft only being open. During the day explorers got around on the south entry, and then east to a point not far from the bottom of the air shaft in the second vein, but falls of roof had to be cleaned up, and repairs made in the timbering; this was ordered done during the night. In the evening, after a conference, the inspectors from other states and seven of the Illinois inspectors returned to their homes, three of the Illinois inspectors remaining in charge. This action was taken because the inspectors considered that the company had a sufficient number of able men on the ground to take care of the situation.

Saturday, November 20: The fire was now seemingly under control—that part, at least, which was accessible from the bottom of the main shaft; the heavy falls of roof on the east side of the shaft, probably 35 feet high, were loaded out and the smouldering fire quenched as it was reached.

At 10:30 a. m., the Illinois mine inspectors remaining over from the day before left the mine, urgent business in other parts of their respective districts calling them away; one of them having a mine explosion that had occurred the previous week to investigate, by which two shot firers had been killed.

It was shortly after noon on this date, when an exploring party found twenty-one men alive in the first west off of the main south entry. The imprisoned men had built "stoppings," thereby shutting out the foul gases from the fire, and depending on the purer air in the enclosed space to sustain life. They were at once removed from the mine, all but one recovering.

Telegraph messages were sent to all the Illinois inspectors and they hurried back to the mine, several of them arriving within a few hours. During the night, explorations were made in the east entries off of the main south.

Monday, November 22: The exploring of the south section of the mine continued through the day; about 100 dead bodies were taken out of that part of the workings.

Tuesday and Wednesday, November 23 and 24: On these dates, the first northwest entries were explored, the face of the entries was reached, but no bodies were found. It was learned later that all of the men got out of this part of the mine; it was also found that there was no connection between the northwest part of the workings, where the exploration was made, and the north part of the workings on the east side of the shaft, where many men were known to be at work the day the fire started.

While the explorers were in the northwest entries, smoke was found issuing from the main passageway which connects the west shaft parting with the air shaft and which was closed by a fall of roof and a temporary stopping; the explorers in the northwest section were hastily recalled, then the temporary stopping was pulled down, and a stream of water from the fire hose turned in, and all signs of fire subdued at that point, and a more substantial stopping put in during the night.

About 2 o'clock a. m., Wednesday, the 24th, a party of four went down into the third vein. On their return they reported from three to four feet of water covering the floor of the mine in the lower parts of the workings, and that they had found groups of men in the dry parts, all dead. Pumps were being made ready in the meantime to remove the water, partially at least, from the third vein workings so that the bodies could be recovered.

During the succeeding few hours, however, it was noticed that the fire from the south and east sides of the main shaft was slowly encroaching on the shaft itself. Holes were cut in the shaft lining as high as 30 feet from the bottom and streams of water thrown in behind the shaft lining; but the steam and smoke continued to issue from the openings cut and also from the sides of the shaft, in increasing quantities; to offset this a board stopping was built around the south and east sides of the shaft, and as close thereto as the workings of the cages would permit, and a stopping closed tight, near the bottom of the air shaft. The object of this was to deaden, or partially subdue, the fire thought to be burning between those points. This, however, was not entirely successful, as the smoke from behind the shaft lining, which formerly passed to the east and around to the upcast or air shaft, was now carried to the west side of the main shaft, and the rescuers there practically driven from the mine.

A strong smell of coal smoke was noted, indicating that the coal pillars were on fire, and as the gases given off by burning coal were known to be dangerous, great caution became necessary. Some time shortly after midnight on the morning of Thursday, November 25, a consultation was held, at which the president of the State Mining Board, chief of the fire department, expert helmetmen from Champaign, the Illinois mine inspectors and representatives of the St. Paul Coal Company were present. The situation was discussed from every possible point of view, and it seemed to be the unanimous opinion of all present that all of the men in the mine were dead; and the best way, looking to the recovery of the bodies later, was to seal up both of the shafts while they were in this condition, to be entered as soon as the fire was extinguished.

The sealing of the shafts was commenced early Thursday morning, November 25th. A two inch pipe was inserted in the concrete cover of the main shaft, so that the temperature, pressure and condition of the air from the mine could be obtained at short intervals and the exact conditions of the underground workings of the mine understood.

Such is a brief story of this, the worst coal mine disaster in our State, in number of lives lost. The mine was sealed on November 25, 1909, and opened 67 days later on February 1, 1910. The next 25 pages of the detailed report in the 1910 issue of our Annual Coal Report (also copied in full in our 1930 Compilation) are omitted here since the foregoing two volumes are available in many libraries, including our own in Springfield and in our five Mine Rescue Stations. These volumes may be studied by those who wish to know the details of the reopening of the mine and recovery of bodies; they also contain the 16,000 word appendix upon further evidence and activities, and the response of mine workers, companies, and public to the bereaved. A collection was taken up for the widows and orphans, in the sum of $41,000.00. A total of nearly one million dollars in money, including company settlement in compensation, was paid to the families.

A monument of gray granite is now over the location, at the southwest edge of Cherry, on Illinois Route 89. This Memorial Monument and Cemetery is posted under the name of the Holy Trinity Miners Church of Cherry, Illinois. The gray granite is inscribed:

TO THE MEMORY OF THE MINERS WHO LOST THEIR LIVES IN
THE CHERRY MINE DISASTER
November 13, 1909

Erected by the U. M. W. of A. District No. 12, Illinois
November 13, 1911

Number Lost 256

This cemetery was under the supervision of Local Union No. 2711, U. M. W. of A., Cherry, Illinois, until the year 1946. At that time it was taken over by the Honorable Father Anthony Whermann, pastor, of the Holy Trinity Church, Cherry, Illinois, who is the caretaker in person, and maintains the cemetery in excellent condition.

December 23, 1909, an explosion of gas in Mine "A" of the Chicago and Carterville Coal Company, Herrin, Williamson County, resulted in the death of eight men. Going into the entries (which had been pronounced free from gas) with an open light, the gas was ignited and the explosion resulted.

December 27, 1909, four shot firers were killed in No. 5 mine, Centralia Coal Company, Centralia, Marion County. The cause of this accident was an explosion of gas, generated by the excessive use of blasting powder.

November 11, 1910, there was a gas explosion in the Shoal Creek Coal Company's mine, Panama, Montgomery County, resulting in the death of six men, injury by afterdamp to eleven, and imperiling the lives of 386 other employees. Two miners went into the mine to secure the tools of one who had been discharged and, although cautioned not to go into a certain entry because of gas there, they went with open light, and the explosion resulted.

February 13, 1911, a deplorable accident occurred at the No. 3 mine of the Saline County Coal Company, Harrisburg, in which four men lost their lives. This was a new mine, the shaft had just been sunk, and the sinking buckets were still in use. The afternoon shift was timbering and had come on top to eat supper. Returning to their work, the men were being lowered in the sinking bucket to the platform, about 80 feet down the shaft; one load having been landed, three men got in the bucket ready to be lowered. The top man noticed that the safety link attached to the hook which fastened the rope to the bucket was not in place and called the attention of the men to the fact, when one of them said, "Let it go at that". The top man then gave the signal to lower. Two men were on one side of the bucket and one on the other, which caused it to tip. The hook became detached from the rope and the men and bucket were precipitated to the platform, killing them and one other who had preceded them.

October 23, 1911, eight men lost their lives in O'Gara Coal Company's mine No. 9, Harrisburg, Saline County. This company was operating mines No. 9 and No. 4, which were connected at the face of the main north entry of mine No. 9. Number 4 mine had been closed for repairs in the main shaft and it seems that the section of this mine nearest No. 9 mine had not been sufficiently ventilated. These men were working near the connection of these mines when one entered into mine No. 4 with his naked light and an explosion occurred, blowing the door down between the two mines, allowing afterdamp to rush on to them, causing their death by suffocation.

January 15, 1913, an explosion caused by firing two dead holes in Crescent Coal Company's mine, Peoria, resulted in the death of three men, two of them shot firers, the other a miner, who were overcome by afterdamp caused by the explosion.

February 19, 1913, four men were killed in Eldorado Coal and Mining Company's mine, Eldorado, Saline County, by an explosion of gas. These men had just arrived at their working places when they came in contact with an accumulation of gas, which ignited and resulted in their death. Whether or not the mine had been examined that morning and this particular place marked dangerous is not disclosed in the report. Several others were injured, two of whom were thought to be dead when brought to the parting, but were resuscitated by patient work of more than half an hour. Soon after these men revived, it was found that three of the rescue party, who had rushed into the affected portion of the mine, were down from the effects of noxious gases. Again the pulmotors were brought into use and it was only through the efficient work of the men in charge that their lives were saved.

GAS EXPLOSION AT ROYALTON

A gas explosion occurred in the Franklin Coal and Coke Company's No. 1 mine at Royalton, Franklin County, Tuesday, October 27, 1914, about 7:25 a. m. Fifty-two men lost their lives. The coroner's inquest resulted in the following verdict in each case:

"Deceased came to his death as the result of an explosion which occurred in the mine at about 7:25 a. m., October 27, A. D. 1914."

There were 357 men in the mine (50 were yet in line on top, men being lowered at this starting time) when the explosion occurred. Twenty were killed and 32 died from afterdamp. Some 220 men were in the unaffected areas and were later conducted safely to the hoisting shaft. The explosion was limited to the northwest quarter of the mine although forces reached both shafts. While many had reached (all walked) their working places, others were still enroute on the return-air haulage roads. Some 80 or 90 were still on or near the hoisting shaft (upcast air) bottom. These were the most recent to be lowered on that shaft's cages. Prompt reversal of the fan by the direction of the mine manager, who was still on the surface, saved many lives. There was no damage in either shaft or to the fan.

Damage in the affected area was not very great even though coal dust had entered into the explosion. Some brattices and doors were wrecked and a few cars were derailed.

Black powder was being used, this being one of the three mines in Franklin County still using black powder. The other 17 mines in the county were using permissible explosives. Many kegs had exploded, not all in the same place, since each pair of miners had their own limited supply. One theory receiving support of the superintendent and others was that the origin was ignition of a full keg by a miner as he opened the keg with a pick. Another theory receiving the support of many miners was the failure in closing some doors and the accumulation of gas in old works that a miner entered enroute to his work, causing ignition from his open light.

The more plausible theory, the one supported by mine inspectors, mine manager and others, was the ignition by an open light of gas near the entry face of the 3 northwest off 2 west. There may have been an accumulation of gas at the faces of these entries, amounting to at least 1,000 cubic feet.

This theory is somewhat substantiated by the State Mine Inspector's written opinion that the gas explosion was started by some one crossing the mine examiner's "danger mark" and igniting the gas in the 3 northwest entry.

In a detailed Bureau of Mines report, Oscar Cartlidge, manager of the State of Illinois Rescue Stations Commission, stated his conclusions in part as follows:

"This is the first large explosion in Illinois since the establishment of the State Mine Rescue Stations in 1910, but we believe the exploration of the mine and recovery of the dead in less than 24 hours after the explosion occurred justify the efforts put forth by the Mine Rescue Commission for the propagation throughout the State of mine rescue and first aid training.

"We have demonstrated the fact to our own satisfaction that breathing apparatus worn by trained men is of great value in the exploration of the mine and the recovery of the dead after an explosion. It has been shown that the types of breathing apparatus used are practically safe when worn by experienced men and that long exploration trips to locate the living and the dead and ascertain the presence of fires, can be made in irrespirable air.

"We also found that crude caustic soda can be used for rescue work with Fleuss apparatus, as our men used this absorbent exclusively.

"We also learned that there were not enough safety and electric lamps at the average Illinois mine, and suggest that every mining man who goes to an explosion take with him all the safety lamps he can secure. We also learned that the reversal of the air current following an explosion is sometimes justified."

The inspection and its report were made by J. W. Paul, mine examiner, H. I. Smith, assistant mine examiner, and G. T. Powell, foreman miner, for the U. S. Bureau of Mines.—J E J

EXPLOSION AT PANAMA NO. 1

An explosion occurred in the Shoal Creek Coal Company's Panama No. 1 mine in Montgomery County at 6:45 a. m. Monday, April 5, 1915, resulting in the death of eleven men, three by violence and burns, and eight by asphyxiation. Two others were revived by artificial respiration and two were covered with dust but escaped.

The explosion occurred as the men were being lowered into the mine before time to start working. About 300 of the total of 500 workmen had already entered the mine. With the exception of the above mentioned and rescue parties, all were hoisted to the surface without mishap. Ten of the rescue party were overcome during rescue operations, but soon revived, the party working without oxygen breathing apparatus.

Alleged causes:

(1) A body of gas near the face of 7 E. or 8 E. entry was ignited by open light of the first man to reach this point. The body of gas was thought to have accumulated rather rapidly after the mine was examined, or the mine examiner marked the place safe in his book without making an examination. In assuming the former, it was believed that the accumulation was due either to a sudden liberation from a small fall or to a door being left open by the examiner.

(2) One of the first men to enter the 7 E. was thought by some to have been carrying some detonators or explosives (permissible explosives were used at this mine) which were accidentally discharged, initiating a coal dust explosion.

Coal dust was ignited. Great violence extended 1,000 feet from the faces. All violence was within 2,000 feet. Violence affected the 7-8 ES. entries and the stub entry off the 7-8 ES. but did not extend outby the mouth of the 7-8 ES. entries.

The conclusion of H. I. Smith, J. R. Fleming and G. T. Powell, representatives of the U. S. Bureau of Mines, was that ignition was by a miner's open light near face of the 7 ES. entry, the gas having accumulated probably on account of insufficient ventilation or because a door near the face had been left open. Their conclusion included the recommendation that the accumulations of dry and inflammable dust be removed, to be followed by the application of rock dust, which should be so applied as to dislodge the dry coal dust from the roof, ribs and the gobs along the entries. An alternate recommendation was that water be used regularly to keep the dust allayed and damp at all times.

According to the records of the Illinois Department of Mines and Minerals, this is the first written recommendation for rock dusting within the State.—J E J

EXPLOSION AT UNITED COAL MINING COMPANY MINE NO. 1

On July 27, 1915, an explosion at the United Coal Mining Company No. 1 mine, Christopher, Franklin County, killed eight men.

The origin of explosion was the ignition of gas in old works, by a miner's carbide open light. Evidently a door had been left open.

The area for many acres had been worked out and had not yet caved well. There was vast room for expansion of force. This resulted in small explosion pressure being generated, thus lessening propagation by limiting the increase in temperature. Such explosions are not severe in their wreckage at their origins.

The area also was a thick "blue band" area. This was an average thickness of eight inches of shale in the coal seam some eighteen inches from the floor of this nine-foot thick coal seam. This shale, when loosened, was thrown back before coal above it was brought down.

This practice of hand-shoveling this blasted shale back into the gob gave a high ash dust content over the entire section, similar to the rock dusting of a mine floor, a part of the scheme of rock dusting that became the practice in 1918 by the Old Ben Coal Corporation, the owner of this and eight other mines in Franklin County. Some of the finer ash dust, of course, settled higher up among the timbers and on coal ribs, but very small in percentage as compared with the floor.

Coal dust propagation therefore added but little, if any, to the gas explosion, and the explosion was limited to the area of that one section.—J E J

December 8, 1916, a fire broke out in Johnston City Coal Company's mine, Johnston City, Williamson County, in which three men lost their lives by being overcome by fumes and smoke. Without the knowledge of the others working on the fire, they left on the return air towards the shaft bottom and were asphyxiated.

May 12, 1917, an explosion of gas in Saline County Coal Company's mine, Grayson, Saline County, killed four men. This was on the night shift and, fortunately, only a few men were in the mine. One was the day examiner who was quite some distance from the explosion origin. His small dog, which always accompanied him on his examinations, was instantly killed also.

The others were gang men who were driving development entries and were at the explosion origin.

EXPLOSION AT W. P. REND MINE NO. 2
Weaver, Williamson County

An explosion occurred in the W. P. Rend Mine No. 2, about three miles north of Herrin, June 2, 1917, killing nine men.

This was a very wet mine. The night shift was chiefly a material supply shift although other essential work was done, such as some coal preparation at occasional working faces, and the pumping of water.

On the night of the explosion, a night shift crew was salvaging approximately 100 yards of unused entry track from a worked-out panel, the entrance to which was badly caved and partly choked with fallen rock. Near the entrance on the used haulage road was a door to force air into the area being salvaged.

The crew was at work, taking up the track, when the explosion occurred. Evidently the door had been left open and the gas backed from more interior regions to the location where the men were working. It was a very strong gas explosion, blowing out the door and knocking out timbers. Falls of rock occurred at once. One of these pinned a victim in an erect position against a wall. That body was the last to be found, the rock fall being a foot or two higher than the man's head.

Coal dust added but little to the explosion force because of the dampness. Most of the explosive force was in the immediate vicinity, although force was felt by other members of the night shift more than half a mile away.

The records showed that an inspection had been made for gas and the working area was safe. Open lights were used. The crew had a gas testing safety lamp.—J E J

REPORT OF THE EXPLOSION OCCURRING AT MINE NO. 18 OF THE BY-PRODUCTS COKE CORPORATION ON JULY 26, 1917

Hon. Evan D. Johns, Director, Department Mines and Minerals:

The explosion originated on the fifth north panel entry first west south at room No. 1, while the motor trip of empty cars was passing into the panel. The gas was ignited either by the light of the motorman or triprider, or by the sparking of the trolley wheel against the trolley wire hangers. The explosion traveled out in the opposite direction to the travel of the motor trip. The motorman and triprider were burned but slightly; the motorman was merely singed. The trapper boy was located directly in the path of the explosion at the intersection of the fifth north panel and the first west south entry about 120 feet from the explosion origin. He was severely burned, and died the same night. A road cleaner was working about 200 feet from the trapper boy and he was burned severely, though probably not fatally.

The zone of explosion is very limited, extending to room No. 3 on the fifth north panel and about 250 feet outby from the intersection of the entries on the first west entry. All stoppings in the vicinity are of wood, but none of these were damaged. The only damage done to the ventilation was the breaking of the top hinge of the door between the first and second west south entries at the fifth north.

The intersection of the fifth and sixth north panels and the first west entry is on a knoll; the panels dipping on a steep grade towards the faces and the first west south dipping outby from the intersection. The haulage roads throughout the vicinity are covered with motor sand and that was an important factor in localizing the explosion. Twenty men were at work in the fifth and sixth panels and it is fortunate that the explosion did not travel that way. Coal dust entered into the explosion, but the presence of sand evidently retarded its propagation farther than 250 feet along the first west south entry. One reason that the explosion did not travel down the panels is due probably to the dip towards their faces.

The gas was produced by the squeezing of the upper strata on the third and fourth north panels and the fifth north panel rooms. Evidence of this squeezing has been seen for several months. Room No. 1, where the explosion originated, has been caved for some time. Extra examiners were employed to examine for gaseous conditions, but it is doubted that they examined the top of fall in room No. 1 on this day. It is evident that an accumulation of gas existed on the top of the fall. The gas was forced out by a fall of rock, just as the motor was passing.

The fifth north panel squeeze is still producing gas and the first west section of the mine is not working.—J E J

September 17, 1917, five men were killed in the Chicago, Wilmington and Franklin Coal Company's mine, Orient, Franklin County. An incompletely caged loaded car at the main shaft had caused a wreck, and men were being hoisted on the escapement shaft cage. This was a single cage with counterbalance in guides that operated like a separate cage. This counterbalance came out of its guides and collided with the cage at the half-way location in the shaft, causing the cage to fall to the shaft bottom, a distance of about 250 feet.—J E J

EXPLOSION IN OLD BEN COAL CORPORATION'S MINE NO. 11

By JOHN E. JONES
Safety Engineer, Old Ben Coal Corporation

November 29, 1917, an explosion of gas and coal dust in Old Ben Coal Corporation's Mine No. 11, Christopher, Franklin County, killed 17 men.

This was Thanksgiving night and only about 25% of the night shift men were at work. A worker took a motor to the main east entries to ride most of the way to start a pump. Evidently he unknowingly passed an open door as he parked the motor. As he continued his journey up a hill (a very steep hill upward from his parked motor and the electric switch, and then down) on foot with his naked light on his head and his gas testing lamp in his hand, to examine the entry faces before applying the electric power, the gas was ignited as he was enroute up the hill. The gas had unknowingly collected there due to the door being left open during that holiday.

It was a very dry mine and coal dust propagated the explosion into every section and up both shafts with a great force. The escapement stairway of steel was a tangled mass at its bottom 65 feet. Both cages in the hoisting shaft were wrecked. The automatic explosion doors at the fan worked successfully and there was early resumption of air flow. The worker igniting the gas was the only one who knew of the explosion, as he fell down in an effort to avoid the flame. He must have died in a few seconds, but the other 16 were killed instantly. Attempted rescue work ceased on the third day on account of the several fires encountered and the several accumulations of gas because of the almost complete wreckage of overcasts and stoppings. The four last bodies had not yet been found but it was certain those men could not be alive after such great violence or in such high afterdamp content. We were compelled to seal the entire mine at once, and did so around both shaft bottoms largely because of several feet of loose "fill" in the mine yard and around the shaft top.

In 49 days analyses of gas behind the seals showed that fires were extinguished. The seals were opened and the bodies at once found and recovered by means of oxygen apparatus. Reparation work was then begun at once.

Six hundred men were employed on the day shift, which added to the seriousness of such explosion hazards. Mr. D. W. Buchanan, president of the company, and I had often discussed rock dusting and closed lights to lessen such hazards, when I was State mine inspector. He employed me as his safety engineer during that work. Our first act was a request to the U. S. Bureau of Mines for thorough inspection of our hazards and their recommendations for correction.

The Old Ben Mine No. 11 explosion is the explosion that, figuratively, was heard all over the coal mining world. Mr. Buchanan and I fully appreciated that had closed lights been used, the gas would not have been lit with an open light; also that had the mine been rock dusted, the explosion would not have propagated. The Bureau of Mines was consulted and agreed to study, analyze and give detailed report upon any mine the company chose in the county, upon explosion hazards, and to recommend corrections. Our Mine No. 10, adjacent to No. 11 and having similar conditions, was chosen. The Bureau's engineers worked there for several weeks but, before their completion and report, we had begun with closed lights and rock dusting. The introduction of closed lights developed into serious local labor antagonism. The electric battery lamp was nick-named "Bug Light", and so was I. It was quite deserving then for our candle power was very low, only two. Since then the light has gradually improved to over 100 candle power and, I think, electric cap lamps are now unanimously accepted.

The beginning of rock dusting was difficult, too. We began with scraping dust off the highways. Those were horse and buggy days, largely. That dust became wet at once in the mine. Then we tried lime rock dust sweepings from quarry buildings. That was too coarse. Mr. Buchanan then decided to install a mill, after learning our roof shale was a good, though expensive, source for shale dust. Rock dust mills, however, had not yet evolved. He bought a hammer mill to grind the shale lumps into 1½ inch screenings and a flour ball-mill to grind the screenings into dust, 92% through 255 mesh. This was very good, since the Bureau's requirements were 100% through 150 and 75% through 200 mesh. That mill cost $40,000.00 and that shale dust was used by us and a few of our neighbors for nearly ten years, when lime rock dust became available in paper bags. Very early in that period we supplied the Bureau with five tons of our Mine No. 10 coal and ten tons of shale dust.

Immediately after the tests at the Experimental mine, demonstrations there were made before a large group of representatives from our coal field, consisting of miners, bosses, the State inspection department, operators, and members of the Old Ben Coal Corporation. The demonstration seemed conclusive as to the value of shale dusting, but Old Ben trod the path of development and application somewhat alone for a few more years after that demonstration in 1918.

Evan D. John, the director, State inspectors, State rescue teams, Federal and State rescue cars, and many mining men of the region were on hand before hoisting was improvised. The detailed report, including extensive inspection, in the 1918 Annual Coal Report and copied in "A Compilation of the Coal Reports of Illinois, 1882-1930", is readily available in our libraries and is not re-copied in this 1954 Compilation.

EXPLOSION AT BELL & ZOLLER COAL COMPANY MINE

On the morning of December 5, 1917, we were notified of a slight explosion causing three deaths at the Bell & Zoller Coal Company mine located at Zeigler, Franklin County. In company with Mr. John O'Rourke, county mine inspector for Franklin County, John E. Jones, safety engineer for the Old Ben Coal Corporation, and Mr. William B. Plank of the Federal Bureau of Mines, we arrived at Zeigler about 12:00 o'clock noon. We were informed that the mine manager and pit committee had gone to the edge of the old works on the third and fourth right off the fourth east south and, from statements made, learned that some gas had been ignited.

We went into the mine and along the main entry, when we were met by two men coming toward the bottom, who had been badly burned by a second explosion, in the course of an investigation made by them at the place where the gas had been ignited the first time. We concluded that the gas had been ignited the second time either by the flame of a naked light or a damaged safety lamp. From one of these explosions a fire had been started in the old works. We decided that the best thing to do was to build stoppings and seal off this pair of entries, and had the work well in hand when the third explosion came, about 4:00 o'clock p. m. The flame came out into the entries where the seals were being built, and the heat was so intense that thirteen men were burned, of whom three died.

After the third explosion, all of the men who were in the mine went to the surface and a consultation was held. A decision was reached that we would let the mine stand until the next morning and, if no other explosion occurred, we would go down again and attempt to seal off the territory in which the fire was located.

The next morning about 7:40 a. m., the fourth explosion occurred.

After the fourth explosion, a consultation was held by those present and it was decided that the only thing that could be done was to seal the top of both shafts, which was accomplished in as short a period of time as possible and in a manner that was entirely satisfactory.—Frank Rosbottom, State Mine Inspector.

February 22, 1918, an explosion of coal dust from blasting "dead" holes in Citizens Coal Company's "A" mine, Springfield, Sangamon County, killed four men. These men were working night shift, and about 4:00 o'clock a. m. went into a room to place a car on the track and to fire three shots that had been left by the shot firers. They completed this work and had gone about 1,000 feet in the entry when the shots exploded, causing the explosion of dust.

A detailed report is given in the 1918 Annual Coal Report.

February 22, 1918, an explosion of 26 kegs of powder, which had been let down into the mine and allowed to stand on the switch track while the electric power was on, occurred in the Royal Mine of Chicago, Wilmington and Franklin Coal Company, Virden, Macoupin County, which resulted in the death of four men.

June 29, 1918, three men opened a sealed fire section of Mine No. 8, O'Gara Coal Company, Eldorado, Saline County, to investigate whether or not the fire was extinguished. Some of the team would not participate, contending the distance was too far and that resealing closer to the fire location should first be done. Their contention was true, the oxygen of one member being fully consumed on the return journey and in sight of the opened seal. The other two consumed theirs in attempted rescue. Members with fresh apparatus outside the seal quickly brought the bodies to fresh air where artificial respiration was applied but failed.—J E J

GAS EXPLOSION AT FRANKLIN COAL & COKE CO., ROYALTON

An explosion occurred at the north mine of Royalton on September 27th, 1918, causing the deaths of 21 men as follows: ten miners, two bratticemen, the superintendent, the mine manager, three assistant mine managers, two examiners, the mine electrician and the motor boss.

Late on the preceding night a fire was discovered at room 25 off the 2 S panel off the 4 ES. The room was driven in about 25 feet from the entry. The fire was caused by the blasting which was a very frequent occurrence at this mine since black powder was used as the explosive. The fire evidently had gained much headway for its smoke and gasses caused the death of two mules on the return air current at the main shaft bottom, about 3,000 feet from the fire and prior to the explosion.

The 28th room neck was the last one turned off both the first and second south panels. The second south is the intake and the first south the return for the air current, this return traveling into the face of the main south thence direct along the haulage road to the shaft bottom.

The fire fighters had decided to build seals between rooms 21 and 22 on each panel entry. They had nearly completed the seal on the intake (second south panel) when one of the men was sent out on an errand. A telephone was located on the return air side of the 4 ES at the neck of the first south panel. The door between the first and second south panel was nailed shut but this man pried it open and was walking into the return air when his naked light ignited gas. The explosion blew this man back through the door, into the intake air and he was found crawling out towards the bottom on the intake air course by rescuers. He was burned, but not badly. He probably gasped at the time of the explosion which resulted in his death later. He lived to give the information that he had ignited the gas with his naked light on the return airway. He died the second day after the explosion.

Rescue men with and without oxygen apparatus gathered as soon as possible and men equipped with oxygen apparatus went into the panel as far as the temperature would permit. Six bodies were found between rooms 9 and 15. The first body found still had a lighted carbide lamp. These six bodies showed indications that there had been efforts made to rush out. There were but little signs of violence where these bodies were found. The bodies showed no signs of being burned or singed.

The accumulation of gas, together with the existence of the fire, would not permit the ventilation of the panel and since the oxygen apparatus men could not advance farther than room No. 16 because of the intense heat, it was decided to seal the panels temporarily.

On the night of October 5th the panel was again entered. This was by means of air locks and the remaining 14 bodies were brought out by the apparatus men. This work was very efficiently done, not one man being overcome regardless of the great distance the bodies were carried.

The bodies were found covered with about six inches to eight inches of top coal. These men evidently had not had time to even attempt to get out. They, also, were killed by the afterdamp, the explosion violence nor flame having reached them. These bodies were found at the places where they had been working. The seal which they had nearly completed was blown down but did not show effects of other violence.

The panel was again sealed and the mine resumed operation on October 10th.

The force of this very weak explosion exerted itself in the NS entry and the SW section of the mine. Coal dust entered but little if any to propagate the explosion. Low oxygen content, dampness and large expansion area were factors in the prevention of extreme violence. —J E J

May 12, 1919, an explosion caused by a windy shot occurred in Marion County Coal Company's mine, Centralia, Marion County, resulting in the death of four shot firers. Black powder was the explosive used in this mine.

GAS EXPLOSION IN OLD BEN COAL CORPORATION NO. 10

Christopher, Franklin County

A gas explosion occurred in Old Ben Mine No. 10, Christopher, at 10:45 a. m. June 6, 1919, causing the death of three men and the slight burning of a fourth man.

A pick-up pair of east entries was being driven towards the face of an inaccessible pair of north entries to continue the driving of the north pair. This north pair had squeezed some distance outby their face some two years previous. Long drill holes for safety and in compliance with the mining law were drilled ahead. Unfortunately the left and center holes were farther north than the old entry face and were in the solid coal. The right flank hole stopped less than a foot from penetration, due to overhanging rib coal. Unfortunately also was the 4% upgrade and consequent mining in the clay with the mining machine thus mining under the old mining in the north entry. In doing so, the machine men thought they were in solid conditions. However, a hole no bigger than three inches in diameter was made.

Electric cap lamps had recently been installed in the company's adjacent No. 11 mine and some of these were in use for this particular job at No. 10, no carbide lights to be used in that territory.

The machine men had loaded their machine and brought it 500 feet outby the face. Shortly afterward the motorman with his cable locomotive and triprider on front end of pushed car started towards the newly undercut face for the hand loaders to load the bug-dust. The triprider did not, on this trip, change to his electric light. As he passed through a lead-curtain near the face, the gas was ignited. The two loaders and triprider, all of whom were inby the curtain, were fatally burned. The motorman was slightly burned. The trip coasted back down the steep hill and wrecked after crashing through and destroying a trap door. There was, however, no violence from the explosion. Rock dust from troughs and coated application was dispersed to a limited extent.—J E J

REPORT OF A DEATH IN OXYGEN BREATHING APPARATUS

West Frankfort, Franklin County

At about 6:30 p. m. July 24, 1920, a fire was discovered in an old pair of panels in By Products Coke Corporation Mine No. 18, West Frankfort. It was almost wholly extinguished but not quite, because all the fire extinguishers on hand had been used. Upon return, the fire had rekindled, and sealing was then done. On July 28th one seal of the pair was broken for an oxygen breathing apparatus crew to enter for inspection. Benton, Herrin, and DuQuoin teams, county and State inspectors, and local and district management of the corporation were present.

On first inspection, smoke was found and a helmet wearer, the county inspector, was overcome. In thirty minutes he was outby the seal and revived. On the second inspection, the district superintendent was likewise overcome. It took much longer to bring him out and he could not be revived. Three doctors were on hand upon bringing him back outby the seal. He was ill and had vomited. This clogged the mica valves, thus stopping the flow of oxygen.—J E J

February 14, 1921, a gas explosion in No. 8 mine, O'Gara Coal Company, Eldorado, Saline County, killed three men.

February 23, 1921, three shot firers were killed as a result of windy shot, in Centralia Coal Company's mine, Centralia, Marion County.

MINE FIRE AT UNION COLLIERIES KATHLEEN MINE

Dowell, Perry County

A mine fire occurred at the Kathleen Mine of the Union Collieries Company on February 23, 1921, which resulted in the sealing on top of both shafts, with seven men in the mine.

It is not known what actually caused the fire, but it is assumed that a curtain caught fire from an electric wire or wires.

Main entries at this mine were on a three entry system, and cross and panel entries were on a two entry system. Panels were connected between cross entries. The fire originated in one of the three main north entries near the intersection of the pair of cross entries where the seven men were entombed.

The smoke was first discovered by the surveyor and two helpers who had just left the above-mentioned seven men, to go to the shaft bottom for their lunch which they had forgotten. As they turned south on the main north from the pair of entries where the seven men were now entombed, they met smoke but assumed that it was due to a blown out cable. They traveled to the faces of the main north and started down the middle entry. They found smoke there also. They returned to the faces of the main north entry, and the surveyor, with some of the men working the main entries, endeavored to get back to the seven men, but failed to do so because of the dense smoke. They returned to the faces of the main north and traveled back on the west entry of the main north, trying to find a west cross entry which connected to the other side of the mine. They failed to locate this pair of entries, so the surveyor with his two helpers and two of the three main north miners worked their way through the fire by crawling close to the west rib of this main north entry. The other miner refused to pass through the fire and returned towards the faces of the main north. This miner found the west cross entry and came out on the other side of the mine.

Attempts were made to extinguish the fire sufficiently to reach the seven men, but the fire gained very fast. Rescue teams were called, having breathing apparatus, but the teams were unable to get to the men because of the extreme heat. The shafts were then sealed on the surface.

A drill hole was then drilled down to the face of a parting entry that was just being started near the faces of the entries where the seven men were entombed, with the hopes that the men had sealed themselves in before the smoke and gases from the fire had reached them. Smoke and gas came through this hole, proving failure of this effort.

Opening of the mine began March 17 by rescue teams under the direction of the State Department of Mines and Minerals and the assistance of the Federal Bureau of Mines, and was completed on March 29 when all the bodies were removed.—J E J

GAS EXPLOSION IN HARRISBURG COLLIERY COMPANY

Harco, Saline County

The explosion occurred on August 31, 1921, causing eleven men to be suffocated by afterdamp. The following day a man wearing an oxygen breathing apparatus was overcome and lost his life.

The explosion was caused by the ignition of gas by a naked light, the gas coming through a horizontal drill hole from a pair of entries. This pair of entries had been driven for development but was temporarily abandoned because of the extreme dip of grade at the faces. It was expected that the pair of entries being driven towards this abandoned pair would break through, these entries to be used for a new haulage-way. The temporarily abandoned entries were accessible and were inspected occasionally, but apparently no gas had been found. The mixture, however, in this abandoned pair of entries was explosive, the flame traveling from the naked light through the drill hole resulting in a very violent explosion in the abandoned pair. The explosion force or flame did not cause the fatalities. The eleven lives lost was caused by the afterdamp about 1,200 to 1,500 feet from the origin of the explosion. Coal dust did not enter into the explosion because of the large amount of fallen and crushed shale giving a large percentage of incombustible material; and probably from room for expansion.—J E J

February 21, 1922, three shot firers received injuries which resulted in their deaths a few days later, from a shot explosion in Springfield District Coal Company's No. 58 mine, Taylorville, Christian County.

GAS EXPLOSION, JOHNSTON CITY, WILLIAMSON COUNTY

September 29, 1922, an explosion occurred in Consolidated Coal Company's Lake Creek mine, which resulted in the death of five men. It was at first thought, and so reported, that this was a powder explosion but later investigation, based upon new evidence, showed clearly in the opinion of the State inspector that the primary cause was an explosion of gas.

December 6, 1923, three men were drowned in the Radium mine of the Aluminum Ore Company, near Belleville, St. Clair County. The machine cut through into an old mine filled with water, allowing the water to rush in with such force that the men had no time to escape.

GAS EXPLOSION, CRERAR-CLINCH MC CLINTOCK MINE

Johnston City, Williamson County

On January 25, 1924, a gas and coal dust explosion occurred in the East mine of Johnston City, operated by the Crerar-Clinch Coal Company (successors to Searles Coal Company), resulting in the death of 32 and injury of eight men. One of the eight men died later, making a total of 33 deaths.

The explosion occurred at 2:40 p. m. when 370 men were in the mine. The mine is one of the older mines in the field, having been sunk in 1905, and is developed long distances in nearly all directions where men are required to work, resulting in rather scattered locations of the workmen.

The territory in which the explosion occurred was the 11-12 north entries off the main east, the main east being the two main entries eastward from the shaft bottom. This 11-12 north is a comparatively new territory, these two north entries being developed a short distance inby the 5-6 panel entries. The 11-12 north, the 5-6 east and west panels and the 3-4 east and west panel entries were on development work only, two men being in each pair of entries, making a total of ten men employed inby the 1-2 east and west panels. The 1-2 east panels had 13 rooms on each panel, making a total of 26 rooms. These rooms were developed a short distance inby their first crosscuts, and nearly all the loaders were at their working faces loading their cars. The machine men were in room No. 5 on the 2 east panel, making an undercut. The first west panels had 13 rooms on each panel. The rooms on the first west were finished. Many had caved and some were caving. The rooms on this first west were unquestionably on a squeeze. Because of this, three trackmen were employed taking out the entry track on this first west panel, two of them being at rooms No. 8 and No. 9 and the other being with the face boss in the vicinity of room No. 4 on the same entry. This was also the reason why the mine manager was in this territory. The rooms on the second west panel were nearly finished and but few loaders were at work in these rooms. The squeeze apparently was not affecting the second west panel.

The ventilation of this territory was from a current of intake air from the main east air course passing into the 12th north, ventilating the 1-2 east, 3-4 east, 5-6 east, 12-11 north, 6-5 west and 4-3 west in a continuous circuit. When the air reached the 2-1 west, it was forced into both of these entries by a door installed on the 11 north haulage outby the first west. The first west panel entry is connected to the first west off the 10th north east so that the return air from this 11-12 north east section passed into the 9-10 east section and assisted in the ventilation of that territory.

The haulage was by a main line trolley locomotive from the shaft bottom to the parting, this parting being located between the second west and third west on the 11th north, and a storage battery locomotive for gathering the coal to the parting.

At the time of the explosion, the main line locomotive had left the parting with a trip of loaded cars and was directly in front of the first west panel entrance. The door on the 11th north, which forced the return air into and through the 1-2 west panels, was open for this main line motor trip. The gathering locomotive was at the first crosscut on the second east panel with a small trip of loaded cars. The door in this crosscut was open to permit the locomotive to pass through to pick up loads which were on the first east entry at room No. 2. In all probability, the door between the 11-12 north at the second east was also open to permit the gathering locomotive and its loaded trip to come out of the second east to place the trip on the parting.

The condition of the mine as to cleanliness was good. The main east air course and haulageway were in exceptionally good condition. The 12th north air course was caved and had considerable fallen shale but had ample area for the required amount of air. The 11 north haulage road was in good condition. A cut in the fire clay had been made in the floor of this haulage road in the vicinity of the 1-2 west panel entrances. These conditions resulted in a high ash content of the pulverized dust in both directions from the 1-2 panels along the 11-12 north entries and prevented the explosion from traveling north or south. The ash content in the 1-2 east and 1-2 west panels was normal, probably a little higher in the west than in the east panels. Assuming the door between the 11th and 12th north to be open, a cloud of fine coal dust was being carried by the air directly from room No. 5 where the machine was cutting, to the 1-2 west panel entrances.

Evidently the squeezing condition of the rooms on the first west caused the accumulation of methane, which was forced out on to the entry, causing an explosive mixture to be carried by the air towards the two trackmen who were on the first west entry near rooms 8 and 9. The naked lights of these men ignited the gas, and they were burned badly and killed instantly. The force spread in all directions at this point, but the explosion was propagated towards room No. 1 of the first west entry, apparently being fed by gas-laden air due to the squeezing rooms on this first west entry, and coal dust. The face boss and other tracklayer were on this entry in the vicinity of room 3, one fatally and the other badly burned. They were both able to travel to the parting. The most of the explosion flame and force crossed through the 45 degree crosscut outby room No. 1, over to the second west panel. After the first, there was but little violence in this pair of entries and the explosion and the explosion force almost ceased before it reached the 11th north. Propagation at this point, however, became violent when the flame came in contact with the coal dust that was being and had been carried from the second east panel, the explosion entering the panel with extreme violence and flame. Both diminished quickly on the first east, due to expansion, but remaining very hot, with diminishing force on the entry and in the rooms of the second east panel. Men in rooms near the panel entrance met their death almost instantly, while those in the innermost rooms were able to travel at increasing distances from the room faces. The nine men from rooms No. 5 and No. 9 inclusive, on first east panel entry, were able to congregate at room neck No. 10. Evidently they died one by one, toppling over on each other. The last man to fall was not dead but unconscious when reached by rescuers.

The men who were in the second west rooms and the mine manager, who was probably on the second west panel entry, were not burned or killed by the explosion as it traveled from its origin on the first west at rooms 8 and 9 and crossed to the east panels. These men were able to travel and seek safety until the addition of afterdamp from the east panels united with that of the west panels, thus overcoming them. Four of the seven men in this entry were alive but unconscious.

The ten men in the development entries were not affected by the flame except that one of them was on the empty track of the parting, and saw the flame. He also saw the face boss and trackman make their way out of the flame affected territory on to the parting and, shortly afterwards, assisted by the others, took these two men with them to a place of safety. These ten men realized that they could not go through the afterdamp, so opened the door between the 11th and 12th north entries at the third east panel, to short-circuit the afterdamp, when the rescuers would re-establish the air current and wrote "Men" on the door, showing that they had taken refuge in the 11th west entry. These ten men were found unharmed, but the face boss had died and the trackman rescued by them was badly burned.

The only damage to the mine was in the immediate vicinity of the 1-2 east and west sections of the mine, and this damage was slight considering the large number of lives lost.

Rescuers immediately went into the explosion affected territory and took out three injured men and one body. They had located other bodies when a telephone call came from one of the 47 men who had sealed themselves in the 9-10 north east section. This section was on the return air current from the 11-12 north east section. This call prompted the rescuers to go at once to the aid of these 47 men, resulting in getting them out without harm but with serious delay for some of the men in the 11-12 north east. Rescuers did succeed in reaching some of the latter in time. Closed lights were used in the rescue work. —J E J

September 26, 1925, three men were killed by an explosion of gas in Consolidated Coal Company's No. 7 mine, Herrin, Williamson County. The men were working in an entry where the ventilation had become deranged, allowing gas to accumulate. It became ignited in some way unknown.

GAS EXPLOSION AT CHICAGO, WILMINGTON & FRANKLIN COAL COMPANY ORIENT NO. 2

West Frankfort, Franklin County

A gas explosion in Chicago, Wilmington & Franklin Coal Company's Orient No. 2 mine on January 29, 1926, killed five men.

A pair of dipping development entries had suddenly started uphill. The faces were ventilated by a booster fan located outby the last open crosscut. Four men were near the face, one an examiner. Evidently gas extinguished the flame in his testing lamp unknowingly to them. He opened the safety lamp and struck a match to light it. They were killed at once, and the fifth victim was killed by a flying trap door some 500 feet from the entry faces.

The mine was on closed lights. It had recently started to rock dust and these two entries were well rock dusted to within about 60 feet of their faces. The explosion flame extended only 75 feet into the rock dust and was extinguished.

Rock dust prevented a very bad disaster since there were 1,300 men below on this day shift. The State law was changed at once from key locks on flame safety lamps to magnetic locks.—J E J

GAS EXPLOSION, SALINE COUNTY COAL CORPORATION NO. 2 MINE

Ledford, March 30, 1927, 8:10 A. M.

The Saline County Coal Corporation owns and operates several mines in the vicinity of Harrisburg, Illinois, where its local office is located. The location of the mine where the explosion occurred is Ledford, a small mining village five miles south of the city of Harrisburg. Eight men lost their lives and none were injured.

The recent daily production of the mine has averaged approximately 1,500 tons. On the day of the explosion there were 196 men in the mine. The mine is an old one and all of its present workings are in the northeast section, varying from one mile to one and three-fourths miles from the main shaft. The mine has been considered as being almost non-gaseous. The shafts are but 102 feet in depth although at the explosion location the distance to the surface is approximately 200 feet.

Illinois seam No. 5 is worked, the coal varying in thickness from 4½ feet to 7 feet. Where the coal is thin this is usually the result of a split in the seam due to a shale intrusion. Occasionally slips or horsebacks occur that extend into the coal seam and when such are encountered methane gas feeders give limited quantities of gas.

The mine is operated on open lights. One examiner is employed. The territory where the explosion occurred is double shifted, this territory having entry development work only. More than the usual quantity of gas for this mine was being found in this development territory due largely to the double shift work. Permissible explosives are used in this territory. The coal seam is of a rolling nature and water collects in the low places. The coal dust is dry on the ribs and timbers. On the floor, except in the low places, the road dust is dry. Gathering locomotives work in this territory but mules are used in other parts of the mine.

Starting time is at 7:30 a. m. The explosion occurred at 8:10 a. m. Two gangs of three men each were employed on the day shift in this development territory, one gang for the 17-18 northwest and one for the 25-26 northeast, these entries being turned at about 45 degrees off the 3 north and at the same point. These entries were developed to about 400 to 450 feet from the 3 north. The 18 northwest entry was going uphill at the face. It had gone up a hill since its beginning; however, there was a rather abrupt knoll on this entry between the entrance and face. This 18 northwest was a return airway. On the morning of the explosion this entry face was blocked out because of gas by the examiner. A bratticeman was sent in to curtain out the gas. Evidently this had been completed, for the three gang men were at work, two in the 17 northwest and one with the bratticeman in the 18 northwest, he having his empty car checked and pushed into the face ready for loading. In the meantime a trackman was at work near the face of the 26 northeast and the three gang men employed in the 25-26 northeast were getting ready to start to work. Two of these gang men were switching or otherwise working with an empty car at the entrance of the 18 northwest and it is at this point that the explosion probably originated. Evidently the return air from the face of the 18 northwest along the 18 northwest entry, also the 26 northeast and back along the 25 northeast entry, had a methane content below an explosive mixture. The knoll on the 18 northwest probably had an explosive mixture of gas near the roof. The curtaining of gas at the 18 northwest face increased the methane content and carried the explosive mixture from the top of knoll on to the lights of the two gang men at the entrance to this entry. Direction of explosion forces further indicate that the origin of explosion was at this point.

Coal dust entered into the explosion as evidenced by the coke deposits in various places in the cavities of the coal ribs. The explosion was a violent one considering that it was localized to such a small area. The empty car near the explosion origin was turned wheels up, all of the brattices were of wood and these and all doors were blown out in the vicinity. Three of the bodies were badly mangled. A 6-ton motor 1,000 feet from the explosion origin was started from rest on level track.

Had rock dust been installed, rock dust would have been given credit for having prevented the explosion from traveling out on the 3 and 4 northeast entries since the opposite to expansion was the result of four entries leading to two entries. However, rock dusted roof and ribs to within a short distance of the faces might have saved the four men at the faces of the 17-18 northwest and the one man at the face of the 26 northeast.

Closed lights would have prevented this accident although the gathering motor, due to arrive after the cars were loaded, would have had an opportunity to ignite the gas were it not sufficiently diffused. The diffusion of the gas to below the explosion point would in all probability have occurred in a few minutes.—J E J

December 20, 1927, an explosion of gas in Cosgrove-Meehan Coal Company's No. 1 mine, Johnston City, Williamson County, killed seven men. The cause of the ignition is not known, as all the men in that section of the mine were killed.

EXPLOSION AT PEABODY NO. 18

West Frankfort, Franklin County

On January 9, 1928, at 7:45 a. m., an explosion occurred in Mine No. 18 of the Peabody Coal Company. Twenty-one lives were lost.

Six hundred seventy men were in the mine at the time of the explosion, 91 men escaped from the explosion-affected territory. Eighteen were in the pair of panels where the explosion originated.

This pair of panels was the 3-4 E. off the 14 NE. There were ten rooms on each panel and the entries were stopped inby rooms No. 10. All of the rooms were working. In general, the 4 E. rooms were upgrade and the 3 E. rooms were downgrade. The maximum grade is approximately eight per cent. Rooms 1 to 7 on the 4 E. and 1 to 4 on the 3 E. are nearly finished. Some of these are picked up because of falls.

The mine is of the same gaseousness as the average Franklin County mine. Its ventilation system is of an efficiency that will prevent gas accumulations under normal conditions. In the event of an abnormal condition, such as shortening of an air current through carelessness or accident, sudden gas liberation from squeeze, or any cause, permissible enclosed lights are installed for safety measures.

Enclosed lights are furnishel all underground employees for illumination to eliminate the hazard of gas or other combustibles being ignited by naked lights. Mines worked on this system are required by law to have no smoking or smoking material in them. Rock dust was installed out by the section affected late in 1926. The theory of rock dusting is to prevent the propagation of an explosion should one occur; this prevention effect based upon the addition of ash to the coal dust making the resultant mine dust non-propagating of flame.

At best we can only theorize as to the conditions immediately preceding an explosion and the cause of ignition, for usually much of the evidence is destroyed by flame and force. However, there is usually sufficient evidence left to permit the establishment of certain facts and build up a theory as to the cause or causes. It is to be understood, of course, that such theory is only an opinion. This opinion is as follows:

Prior to starting time on this morning, the 13th north door between the 3 east and the 4 east had been left open. This shorted the air that came up the 3-4 east cross entries and directed it in an outby direction along the 13-14 north, taking all of the air away from the inby end of the 13-14 N. and 3-4 east panels. This permitted the accumulation of methane in these workings and especially at the faces of the 13-14 N. and upgrade rooms on the 4 E. panel. One of the first men to reach the open door location would close it, thinking it had recently been left open. The air current would be then directed to ventilate the 13-14 N. and 3-4 east panels as planned. The air velocity, 210 feet per minute, in the 13-14 north would clear these two entries in a few minutes, but the large room areas would cause a much slower air current velocity and permit an increasing methane content for a short time. This rather large body of gas would move slowly through the 4 east panel rooms, through the last entry crosscut, and into the 3 east panel rooms.

As is usual in rock dusted mines or otherwise high ash mine dust, there was no sudden reaction of the explosion force. This leaves the evidence of forces as that left from the original explosion, and the origin of this is evident in the vicinity of the last rooms on the 3-4 east panel. The greater force and flame of the explosion went through the 4 east panel, feeding upon the methane on this entry and in the rooms. The faces of these rooms show evidence of intense heat, but little or no force, as would be expected from a conflagration of gas flame. The explosion was not extremely violent, the total wreckage being to doors and wood brattices only. Four doors and seventeen brattices were demolished and six brattices were partially blown out.

Coal dust entered into the explosion as long as there was a high methane content. The high ash content, due to previous rock dusting and much fine sand on the haulage and ribs, did not permit propagation in the absence of methane and propagation did not result outby the panels. There was no flame north or south on the 13-14 north nor west on the 3 east but flame was formed onto the 4 east, outby the 13 north, for a distance of 235 feet. Explosion force extended approximately in a radius of 600 feet from the panel entrance. A burning canvas was wrapped about the bottom end of an installed prop and set fire to the prop and loose coal, near the outby end of the flame zone, in old room No. 12. Expansion room also assisted in the cooling and non-propagation of the flame. Rock dust troughs installed at a distance of 425 feet from the 3 east were dumped by the force of explosion, but flame was not within 425 feet of their location. Troughs on the 4 east at a distance of 850 feet from the panels were not dumped. Some of the men had cigarettes and matches on their persons. Cigarettes and matches were found at the location of assumed origin. A mining machine was located 17 feet from the face in room 9 on the 4 east panel and the controller was closed. There was no evidence that ignition was from the electric arc.

Three men lost their lives at a distance of about 1,000 feet from the locality of explosion. They were overcome by the afterdamp. One of these men, Carl Jones, was a former boss at our Mine No. 9. He lost his life in an effort to save others.

Ninety men were safely led out of the interior of the 1-2 east north by a person or persons in a very commendable manner. An error here might have meant many additional deaths from the afterdamp. Fortunately, a door had been blown off its hinges and prevented the forcing of afterdamp into the workings where these men were employed. Three men were brought out of the 13-14 north entry faces by the first rescuers, one man from old room 9 on 3 east outby the 3-4 E. panels and one from the east north parting.

Loss of life, whether singly or collectively, is always a cause for regrets and for sympathy; regrets as to what might have been done, and sympathy for the sufferers and bereaved ones. Yet we feel that some advancement in safety has been accomplished when an explosion of such intense heat and potential violence has not propagated from the panel of its origin. It speaks well of the possibilities of high ash mine dust in the prevention of coal dust explosion propagation.—J E J

EXPLOSION IN OLD BEN MINE NO. 8

West Frankfort, Franklin County

An explosion occurred in Old Ben Coal Corporation Mine No. 8 on the night shift at 2:30 a. m., Sunday, December the first, 1929. Seven men lost their lives instantly. A total of 24 men were in the mine, but none of the others were affected, many remaining to assist in possible rescue.

The explosion occurred in the 20 north panel approximately 10,000 feet from the main shaft bottom, in territory that is being worked on the long-face retreating system, locally called slab-work. The flame and nearly all the force were confined to the 20 north panel. The explosion was localized to that panel because of the large room for expansion of explosion force and because of rock dust. Coal dust entered into the explosion, but only in the large areas of the long faces, and not on the entries, where rock dust had been applied.

In the development for the long face method of mining, the inby 600 feet of the 20 north panel, 700 feet in length, was equally divided so that three pairs of wide entries were driven through to the next inby panel, making a solid block of coal 600 feet square, penetrated by three pairs of equidistant entries. These three pairs were the 1 and 2 slab, 3 and 4 slab, and the 5 and 6 slab. Work of retreating was begun in the farthest away corner from the 20th panel entrance, this being the inby end of the 5 and 6 slab entry. The retreating faces were V-shaped and the roof falls were partially controlled by timber and by occasional small pillars of coal. The coal taken is 8 feet in thickness, leaving approximately 20 inches of top coal for roof support against local shale falls. The overlying shale, some 60 to 100 feet in thickness, is a grey compact shale, but quite soft and weak, conforming with the general conditions of this coal field.

Methane gas, in the Franklin County coal field, comes from two general sources. One is from the coal seam itself and found during development and extraction of the coal; the other is from the adjoining strata and remaining coal pillars when the overlying strata break, crushing the timbers and pillars. In the first, adequate ventilation can take care of the most unusual conditions. In the second, adequate ventilation can take care of the normal emission of gas, but when large areas cave quickly, whether in worked-out panels or slabs, such large quantities of methane gas may come with or following the falls, so that the gas may back up against an air current. Sufficient warning of such approaching conditions, locally called squeezes, is given by the cracking sound of crashing pillars. A general practice of getting material out of such localities with minimum loss of time has been developed, care being taken that all men be in a safe location when the crash comes; safe as to the falling of the roof and ribs, and safe as to possible gas ignition.

Retreating work in slab No. 6 was nearly finished to the 20 north entry and roof falls had occurred at somewhat regular intervals. Retreating in No. 3 and 4 slabs was in progress and one fall of roof had occurred. No. 1 and 2 slabs were almost developed, being in readiness for retreat work in the near future.

The last open space in slab No. 6, about 65 feet in length, was being watched at frequent intervals for signs of weight. The night examiner had examined the section four hours prior to the explosion, finding it clear of gas and the roof not working. The assistant night boss examined it two hours later, presumably finding it clear of gas, but finding the roof working. As was the practice, he took men to save the track material and began this work at once, having with him three men. These men were James Tabor, the assistant night boss, Dewey Baker, Jewel Baker and Veto Gardini. There were also two other men, E. E. Beardon and Henry Isaacs, on the 20 N. entry in the vicinity of the fifth slab entrance, whose duty it was to deliver water into barrels for the day operation of the power shovels. One of the regular examiners for the day shift, Thos. McDermott, had come from the west side of the mine, and was in about the center of slab No. 3. Such was the location of the seven men at the time of the explosion.

All of the bodies were badly burned and death must have been almost instantaneous. Violence was not evident on any of the bodies except that of the mine examiner. Six of the bodies were recovered on the same day that the explosion occurred, but the body of the assistant night boss was not recovered until 47 hours after the explosion. This body was found 12 feet from the fall edge in slab No. 6, and under about 20 feet of shale. This part of the fall, and probably all of the fall, occurred after the explosion, for the body was burned; and much falling was heard during the advancement for the recovery of the bodies.

There were also three electric locomotives in the section, one on the 20 N. at No. 5 slab entrance, and one in No. 2 slab entrance. Electric power was on the trolley wires, such wires extending along the 20 N. entry, less than 20 feet into slabs No. 5 and 6, 400 feet into slab No. 3, and about the same distance in slabs No. 1 and 2. The wire in slab No. 2 was connected to the wire in slab No. 1 at a point 200 feet inby the slab entrance.

The sequence of events leading to the explosion may never be determined. It has not been established to the satisfaction of all concerned whether the explosion was started from gas or from a box of permissible explosives. This much is certain, that coal dust entered into the explosion, propagating it to include all the long face section, some 500 feet in extent in all directions. The large expansive area and the rock dust localized the explosion to that area.

The explosion-affected territory was not badly wrecked. The mine resumed operation on Thursday morning, December 5, 1929.—J E J

EXPLOSION IN VALIER MINE

Valier, Franklin County

An explosion occurred on the day shift at Valier Mine of the Valier Coal Company at 12:20 p. m., March 18, 1930, resulting in the death of four men and the serious injury of two others. At the time of the explosion there were 475 men in the mine, which was operating at about 60% capacity.

The location of explosion was at the faces of the first southwest cross-entry, approximating one mile from the shaft bottom. The cross-entries are three in number. At the faces there is a 12% upgrade for 150 feet. Number 1 and 2 entries had hand conveyors at the faces, and No. 3 had a short wall mining machine undercutting at the face, all on three phase AC current. An electric locomotive was switching cars near the second last crosscut, its cable attached to the trolley wire about 100 feet further outby from the motor.

Approximately 15,000 cubic feet of air per minute was traveling across the faces from No. 1 to No. 3 entry, all faces having lead curtains. The examiner found the places clear prior to the day shift. The State mine inspector found it clear the day preceding, and the section boss found it clear an hour prior to the explosion. Four doors in the vicinity directed the air other than the stoppings and lead curtains. Two of these doors were on the middle entry, one inby the second last crosscut and the other 300 feet outby this point. These are known as check doors. One door was in the second last crosscut between No. 2 and No. 3 entries, and the other in the fifth last crosscut between No. 1 and 2 curtain. Any two of these doors being open (except one combination) would short the air from the face of No. 3 entry. Another door was at the 11th and 12th east about 900 feet from the face between No. 1 and No. 2 entries. If this door were open, it would short the air.

Evidently, a short circuit of air occurred that caused gas to collect at the face of No. 3 entry that was being undercut, for it is here that the indications show source of origin. Evidently, the two inside doors, both near to each other in the vicinity of the second last crosscut, were blocked open by the haulage men, for they were on a steep grade and a very short time was required to get the load at the face of the No. 2 entry. However, this car was not loaded. A wait of several minutes, perhaps ten minutes, was made, during which time the full volume of air did not reach the face of the No. 3 entry. The change of cars was made and, at the time of the explosion, the loader in No. 2 had blocked his empty car and the motor was just leaving it. The motor and empty crashed down the grade and stopped in the door wreckage near the second last crosscut. It was in this crosscut, between the second and third entries, that most of the wreckage had accumulated.

One man was killed at the face of No. 3 entry, but his partner escaped. This partner died 13 hours after the explosion. One man who was loading at the face of No. 2 entry lost his life, dying after being rescued but before reaching the surface. His partner escaped and assisted in the rescue work. There were 14 men in the explosion-affected vicinity.

The three entries were rock dusted to within 75 feet of the faces. Rock dust was effective in stopping the propagation of the explosion. Just what ignited the gas is not yet known. The mining machine was in operation and the controller was left wide open. The possibility of ignition includes electricity, open flame, and the cutter-bit sparks. The undercutting was very hard, giving a remote possibility of ignition of gas from this source.—J E J

On October 3, 1931, at Rennie Brothers' mine, Chesterfield, Macoupin County, three men were going into the mine to begin the day's work, when the cage broke loose and fell to the bottom of the shaft, killing all three. The Rennie brothers were killed almost instantly; Madison died three days later.

GAS EXPLOSION AT THE MOWEAQUA COAL COMPANY

Moweaqua, Shelby County

At starting time on the morning of December 24, 1932, there occurred one of the worst disasters in the history of the coal industry of this State. An explosion of gas at the Moweaqua Coal Company's mine, Moweaqua, Shelby County, killed 54 men, all that were in the mine at the time.

Dwelling on the origin of the explosion, it is very difficult to decide with exactness, but I believe I have found a very reasonable cause for the same. It is thought that the seal in the sixth east was broken down after the men came out from working on a fire in the workings on the morning of the explosion at 6:00 a. m. When the mantrip passed by the sixth east, with the ventilation going in with them, it is quite possible that gas issued out of the sixth east to the main air current and possibly to some 100 or 150 feet to the parting, where the men got out of the cars. I am further led to believe that when the men stood up, the gas (being lighter than air) would naturally be found in the high part of the parting and was ignited by their open lights. Being of small amount, after ignition, it traveled like a fuse to the main body of gas in the sixth east. The severe violence found on the parting would indicate that a terrific power was required to lift a car and stand it on its end. I have no doubt that the concussion had its effect on any gas that was lying outside of that part of the mine and in or around where the 12 men were found at the 15th south.

The mine map shows that there were abandoned workings at this point on the main west 15th south that opened into the main airways into the back entry and it is possible that the north back entry opened into roadways of other entries back in behind this section of the mine.

A low barometric condition had existed in this part of the State of Illinois, beginning Thursday prior to the day of the disaster. On the morning of the explosion, at 8:00 a. m., the barograph shows a drop of three-tenths of an inch in practically 20 minutes duration—a condition very favorable for gas to exude out of the old workings in any part of a mine that gas could be in. It seems strange that these workings, which had been abandoned for so many years, should give off gas in quantities sufficient to do the destruction which was done at that time.

There is every evidence that a minor and a major explosion took place that morning, the one of the 15th north sixth east being the minor explosion, and every indication shows that the major explosion took place on the main west at the 15th south, connections being made at that point into the north back entry. The violence of the explosion seems to have radiated in all directions from this point, almost equidistant.

The men who were found dead at this point were more severely burned than at any other place in the mine and the fact that this was the intake airway, gases could not have been brought from the inside at that time, so that a large body of gas must have come out of the 13th north, and these men—having open lights at that time—no doubt ignited the gas. However, there is no evidence of a coal dust explosion, and yet coal dust was found everywhere throughout the mine. That can be easily accounted for. The main roadways of this mine being heavily timbered, when the explosion took place the timbers were knocked out, dropping down shale, and rock containing shale dust, and, very naturally, prevented a coal dust explosion.

On the morning of the explosion, this mine had been examined by a certified mine examiner as required by law and my personal contact with this man leads me to believe that he is very conscientious in his duty. Had this man been a little later in his examination it is possible that he might have lost his own life.

There are many things in mines which we cannot foresee, no matter how careful we may be. Our work is all done in the dark (with the exception of artificial light), when we are in mines. We cannot see much. All the time we have many things to contend with that seem to come upon us unexpectedly.

It may be well to remember at this time that on the morning of December 24th, at approximately the same hour, a mild explosion took place in the Virden mine under practically the same conditions, whereby 15 or 16 men were slightly burned on their way to work that morning in a mantrip. State Inspector Fraser, upon investigating this particular accident, found an entry which had been abandoned for 30 years and on that very morning it was still actively giving off gas in dangerous quantities. The same barometric conditions which affected Moweaqua affected the Virden mine.

The mine rescue teams which participated in the recovery work at the Moweaqua disaster were the Illinois mine rescue teams from Benton, Springfield, DuQuoin and LaSalle; and the Superior Coal Company's mine rescue team from Gillespie.

The inspectors who took an active part in the direction of the work were: State Mine Inspectors Harry Marshall, 4th District, Springfield; Fred T. Hodges, 5th District, Danville; John K. Fraser, 6th District, Carlinville; John White, 7th District, Collinsville; Edward Flynn, 9th District, DuQuoin; James Weir, 10th District, Benton; George Bagwill, 11th District, Harrisburg, and Arthur Plumlee, 12th District, Cambria; also Thomas English, State mine inspector-at-large, Springfield, and W. L. Morgan, economic investigator, Greenville, and County Mine Inspectors Nicholas Stein, of Perry County, DuQuoin; Ray Kingston, Shelby County, Shelbyville, and Peter Joyce, assistant director.

The following is the report of the commission appointed by me to investigate the accident:

Springfield, Illinois,
January 4, 1933.

Hon. John G. Millhouse, Director,
Department of Mines and Minerals,
State House, Springfield, Illinois.

Sir—We, your investigation commission, appointed to inquire into the cause of the disaster at the Moweaqua Coal Corporation's Mine Number One, Moweaqua, Illinois, at 8:00 a. m. on December 24th, 1932, beg to submit for your approval the result of our investigation, as follows—

Our investigation convinces us that the explosion originated from the fifth east off the 15th north by methane gas being released as a result of a fall of roof and concretionary nodules falling against the seals, breaking them outward, the methane gas being carried into the air current inward to the men, who had just passed by in a car hauled by a mule. The men, arriving at the parting, in getting out of the car, evidently ignited the gas with their open lights, the flame traveling backward on the 15th north coming in contact with a large body of gas located at that point. The explosion, at this point, seems to have divided, going north and south.

We found the first empty car going in on the parting standing on its end, showing that the force of the explosion had traveled that way. The spraggs in the loaded car wheels being in reverse position indicated that the loaded cars had been pushed back towards the north. From the fifth east, traveling out south, indications showed that the force of the explosion had traveled outward also.

The third and fourth east stoppings had been destroyed. On our first entrance in there, methane gas was found. At the first and second east off the 15th north the stoppings had been destroyed and at the inside of the 15th north three feet of explosive gas was found outside of two old rooms.

There was evidence that gas had been given off in large quantities in all of these openings, which the first exploration proved. The greatest violence had taken place at the mantrip where twelve bodies were found outside of the 15th south in the cars and had radiated in all directions from that point, with the exception of the main west inside of the 15th north and was less violent on the inside workings than it was throughout the mine.

We are convinced that due to a low barometric pressure taking place immediately after 8:00 a. m. (a drop of .3 of an inch occurred at that time) would naturally cause gas to exude in greater volume from the old workings at this point.

Mr. Millhouse gives an additional 3,000 words upon the detailed work done day by day. They are omitted here since those interested in such fine details can study them from the 1932 and 1933 issues of our Annual Coal Reports which are in many libraries, including our own in Springfield, and in each of our five Mine Rescue Stations.

These several pages that are omitted give in minute details the hazards taken, the very slow procedure, the many persons assisting, and the Director's appreciation, conditions of equipment, and mining locations, the various activities, the location of bodies, and the list of names and the conjugal relations of those who lost their lives.

Operations were resumed in January, 1934, as the Erie Sootless Coal Company. The mine operated as such until March, 1935, and has been idle ever since, now being in an abandoned condition.

KATHLEEN MINE FIRE—DOWELL

On the night of August 1, 1936, a fire occurred in the Dowell mine of the Union Collieries Company at Dowell, Illinois, just south of DuQuoin, which caused the death of nine men by asphyxiation from carbon monoxide. Twelve others were partially overcome, but were all revived.

The fire started by a transformer exploding. The transformer was located near the face of 7 northeast, some 2½ miles from the shaft bottom. This transformer had just been set in place but not completely installed. Electric power had evidently been connected.

The first indication of trouble was the kick out of the circuit breaker and the power suddenly going off. The first trial at connection again threw the circuit breaker. Rapid elimination of sections quickly ascertained the location of the electric short to be in the 7 northeast. Investigation showed odor of fire in the return of this section.

The DuQuoin State Mine Rescue Team was at once ordered and this team quickly reached the fire location on foot. Two of the team members, wearing their oxygen apparatus, came out to the shaft bottom at once on a locomotive to order material and men for quick sealing. After giving these instructions, the men immediately returned. Four men were on the shaft bottom. One remained to organize workmen who had been called from the surface, and the other three (two section bosses and the electrical engineer) started in on a locomotive and left word that they would return immediately as soon as they ascertained conditions. They did not wear any protective equipment. The men from the surface, who had been called, arrived at the bottom of the shaft and waited for some time pending the return of the three officials. Six other men then started in on a locomotive with one car of material, assuming that the first three men were delayed because of a derailed locomotive or some obstruction. No message was received from these six and, after considerable waiting on the shaft bottom, two men started to walk the 2½ miles. One of these two men, while enroute, stated that he felt the effects of gas, then traveling was made on the intake air course as the haulageway was the return. They finally got up to the mine rescue team who were waiting near the fire for the other men and material.

The team had heard nothing of either locomotive crew and they immediately returned along the return airway, which was the haulageway. They found the first three men, who had dismounted from the locomotive in an attempt to reach an entrance to the intake airway. The three were dead. The second locomotive with its six men had evidently bumped into the first one, and indications were that the six men had been overcome with carbon monoxide while enroute. Some of the six men were dead, and the others died enroute to the bottom. These casualties occurred inby an upcast shaft in this section of the mine.

A group of other men in the shaft bottom, who became concerned about the non-return of the last two who had entered on foot, started to walk in. After they had proceeded a short distance along the return, twelve of them became ill but they were brought back to the bottom without any casualties.

According to reports, no smoke or fire odor was apparent near the shaft bottom on the haulageway, which was the return airway, and, as it is much quicker to cover the 2½ miles distance to the seat of the fire by locomotive or by walking on the return on account of the easier walking, this prompted the men to go in on the haulageway with the thought that when smoke would be encountered they could cross over into the intake air course. Unfortunately, however, the smoke particles in the return air precipitated out before they traveled the 2½ miles to the shaft bottom and, although the air was clear of smoke, the insidious and odorless carbon monoxide was present. —J E J

SHOT EXPLOSION AT CHICAGO, WILMINGTON & FRANKLIN COAL COMPANY ORIENT NO. 1

A shot exploded prematurely in the Chicago, Wilmington & Franklin Coal Company Orient No. 1 mine on February 22, 1941, killing three men.

A haulage grade by blasting bottoms was being made. While the three men were inspecting results of blasting, other shots went off through misunderstanding on other part of the crew.—J E J

GAS EXPLOSION, HARRISBURG, SALINE COUNTY

A gas explosion in Peabody Coal Company Harco mine No. 47, December 28, 1941, killed eight men. Two men escaped but were suffering from shock and the effect of black damp. They were expected to recover.

The bodies of seven of the deceased were brought to the surface at once but search continued for the eighth.

A crew of electricians had gone into the mine during the weekend holiday to finish dismantling of equipment that was being removed from a section about to be abandoned.

Seven bodies were found a mile from the shaft at the generator room. The section in which they had been working was a half mile further. Apparently they had completed their job there and were returning to the shaft when the unexplained blast came. No rock fell.

Rescue crews from Eldorado, Herrin, DuQuoin and Benton went into the mine. The Eldorado six man crew was first to enter at 6:50 a. m.

William McElder, superintendent of Mine No. 47, went into the workings and directed the rescue work. Lloyd Anderson, superintendent of Peabody Mine No. 43 at Harrisburg, supervised above ground. Also on the job was Robert M. Medill of Springfield, State Director of the Department of Mines and Minerals.

The crew entered the mine about 2:30 a. m. The first indication on the surface that all was not well was the discovery of a short circuit in the wiring system. Henry Dempsey, 56, night superintendent, went down to investigate. Not far from the shaft he discovered two men crawling painfully along. He aided them to the shaft and to safety. Because of the presence of gas, rescue work proceeded slowly and the bodies were not reached until 12:45 p. m. The accident happened about 3:30 a. m.

STEAM ENGINE TURNED OVER, NORTHERN ILLINOIS COAL COMPANY NO. 10 MINE

Wilmington, Will County

Two miners were burned to death on March 16, 1942, and two others were critically injured. One of these injured men died March 18, 1942.

A small locomotive overturned as it descended into a pit at the Northern Illinois Coal Company's strip mine. The victims were scalded by steam loosed when the engine overturned.

DROWNING ACCIDENT, EAGERVILLE, MACOUPIN COUNTY

Four men were drowned in Superior Coal Company's No. 1 mine May 8, 1942. These men were drowned when the machine men cut through into an old abandoned mine adjacent to the newer project, allowing gas to infiltrate into the workings and water to rush in.

ROOF FALL ACCIDENT

On June 17, 1942, a rock fall at the Truax-Traer Coal Company's Burning Star "Drift" mine, located at Elkville, Jackson County, killed three men.

POWDER EXPLOSION

A powder explosion at Peabody Coal Company's mine No. 24, Danville, Vermilion County, killed three men February 16, 1943. Two drillers had finished drilling a room when the tamper came in to their working place with about 25 pounds of permissible powder, some caps and some fuse. In some unknown manner the permissible exploded killing the tamper instantly. The two drillers were fatally injured and died the next day.

FALL OF ROCK

On July 20, 1944, a rock fall at Consolidated Coal Company's No. 7 mine, Staunton, Macoupin County, killed three men.

Work was being done preparing for the reopening of an entry that had been closed for 20 years. Work consisted of loading out debris, drilling and shooting bottom clay and boulders. Loading this material out and timbering was done where necessary. Six road timbers stood near the track on the right side, extending east to a crib some 40 feet distant.

About 6:35 p. m. one of the timbers was removed and the roof was sounded. About 7:00 p. m. a second timber was removed and again the roof was sounded. The roof sounded fairly solid. At about 7:25 p. m. four shots were fired into the bottom clay and boulders. Each shot was fired with 1½ sticks of permissible explosive. It is assumed that these shots, being in close proximity to the two inby supporting props, had weakened the bases of the two props. A fall of rock occurred 30 minutes later. The loading machine was in operation at this time, which probably prevented hearing any small warning that the top was loosening. Rock or limestone about 40 feet long, 21 feet wide and 14 inches thick fell. The three men were killed by this fall.

Rock 14 inches thick will sound solid with a sounding rod or pick even if ready to fall. A hard blow with a sledge might, with a well trained ear or touch, reveal such loose rock hazard.

MANTRIP WRECK

On September 28, 1945, a collision of cars at Panther Creek Mines, Incorporated, Mine No. 4, Springfield, Sangamon County, killed three men.

At 3:21 p. m., nine minutes before quitting time, the mine manager tried to phone the man at the inside generator station but could not get him. He then pulled the power off the outside generator. This shut off the power inside, thus getting telephone attention. Then the inside generator man went to the telephone and called the mine manager at the bottom to find out the trouble. The mine manager advised him that the bottom was blocked with loads and for him to hold the mantrip inside as he, the mine manager, was sending a trip of loads back into the first passing track. The generator man said, "Okay". The mantrip was not held and consequently had a collision with the trip of loads that was being sent back inside.

The generator man stated afterwards that there was noise on the telephone line and he did not get all of the instructions. Three men were killed in the collision.

EXPLOSION, CENTRALIA COAL COMPANY MINE NO. 5

Centralia, Washington County

The Centralia Coal Company Mine No. 5 is located about two miles south of Centralia, Washington County, Illinois. A coal-dust explosion occurred in this mine at 3:26 p. m., March 25, 1947, resulting in the death of 111 men. Sixty-five deaths were due to burns and violence, and 46 deaths were due to breathing irrespirable gases resulting from combustion of the coal dust. One of the victims of the noxious gases was rescued but died after being taken to the surface. At the time of the explosion 142 men were in the mine; 24 escaped unaided and eight, including the one who later died, were rescued. Two hundred sixty-seven men were employed at the mine, 50 on the surface and 217 underground. Of the underground employees 75 worked on the night shift. The average production of coal amounted to approximately 2,200 tons per day.

General information pertaining to the mine:

1) In general the mine was very dry with the exception of local areas where it was necessary to pump water. No special measures were taken to allay coal dust at its source.

2) The hoisting shaft is 540 feet deep. A double-compartment downcast air shaft 537 feet deep is located 1,200 feet south of the hoisting shaft. The ventilating fan is located underground.

3) The mine operates in the Illinois No. 6 coal bed, which averages 76 inches in thickness at this mine. The immediate roof is medium-hard black shale from 1 foot to 5 feet in thickness. The main roof is strong limestone of approximately 30 feet in thickness. The floor is medium-hard fire clay.

4) The room and pillar method of mining was followed, and the pillars were not extracted. The main entries were driven two and three abreast. Room entries were turned right and left off the main entries at 800-foot intervals and were 12 feet in width.

5) Rooms, 28 to 30 feet in width, were turned on 60-foot centers off heading and air courses and were driven to a depth of 400 feet. Room and entry crosscuts were at 60-foot intervals.

6) Ventilation was provided by a seven-foot aeroplane-type fan, operated blowing, and located about 100 feet from the bottom of the intake air shaft.

7) The mine was considered gassy by the Federal Bureau of Mines but was considered as non-gassy by the Illinois Department of Mines and Minerals. Methane analysis as high as 0.7% normally had been found on one occasion; however there is no record that

gas had ever been detected with a flame safety lamp. A large number of oil and gas wells penetrated the coal bed but none were in open workings of the mine.

8) Heavy deposits of coal dust were present at the time of the explosion, along the roadways in working places, and on the roof, ribs, and timbers in working sections. Little effort had been made to load out excessive quantities of dust, and watering methods were not employed to allay dust at its source.

9) Rock dust had been applied in active haulage entries but was not maintained near the working face nor applied in rooms. In active entries rock dusting terminated from 500 to 1,000 feet outby the face.

10) Explosibility tests on the Illinois No. 6 coal bed, as conducted at the USBM experimental mine at Bruceton, Pennyslvania, showed that 33% incombustible matter was required to prevent ignition when no gas was present and 59% incombustible matter was required to prevent propagation under the same conditions. (See bulletin 167, p. 249.)

11) Permissible explosives, Black Diamond No. 15, in eight-ounce cartridges were used for all blasting purposes. The explosives were detonated with No. 6 strength blasting caps and orange wax fuse. The fuse was ignited with open flame carbide lamps. Charges of explosives varied from one to two pounds.

12) Shot holes were charged during the working shift. Stemming of coal cuttings and surface clay was used and made up into prepared dummies of 14 inches length. None of the shot holes inspected contained more than one dummy and none of the holes were properly tamped. A number of charges were loose in the hole, and it was possible to remove some of the charges from the hole by pulling on fuse. A large number of holes were observed to be tamped with coal cuttings.

13) The mine was operating under normal conditions, and no unusual or abnormal conditions had been reported prior to the time of the explosion. No interruptions had occurred to the ventilating system. The barometric pressure was reported to be 29.1 inches of Hg on March 25 and 29.3 inches of Hg on March 24.

14) The drillers were also the shot firers, and they ignited the shots at the end of the working shift. The shot firers were given the signal to light the shots after all normal face operations had ceased and the men were in the mantrips or enroute thereto.

The explosion caused no property damage on the surface of the mine. No damage was caused on the 1 west main haulage road beyond 3,000 feet outby the nucleus of the explosion. No damage was done to the 4 west main haulage, a distance of 2,500 feet from the nucleus of the explosion. In the area near the nucleus of combustion there was considerable damage, consisting of demolishing stoppings and doors, damage to locomotives, extensive damage to cable-reel shuttle cars, tearing down of trolley and feeder lines, destruction of timbering permitting large roof falls which covered machinery and tore down electrical lines. It was estimated that approximately 30 days would be required to repair equipment, install trolley and feeder lines, remove debris from roadways, and complete other necessary work before operations could be resumed.

The reports of the Bureau of Mines and State Department of Mines and Minerals agree that the point of origin of the explosion was at the head of the first west entry. In this area all forces were outby and the damage radiated from the area. There was no evidence of a blown-out shot at the face of the entry; however there was evidence that the top rib shot was underburdened since the shot did not pull all the coal at the right rib in the normal fashion.

Neither the Federal nor State report reached conclusions as to the cause of the explosion, excepting that it was a coal dust explosion. It is, however, true that a blown-out shot of explosives, which had been stemmed with coal dust or an underburdened shot of explosives, could have ignited the coal dust. The dust cloud in which ignition took place could have been raised by the shot which ignited the dust, or by preceding shots in the same working place or the adjacent crosscut.

Summary of Contributing Causes

The mine was dry and dusty and contained heavy deposits of fine coal dust in all active working sections of the mine.

Rock dust had not been applied in rooms nor in entries for a considerable distance outby the working faces.

Methane had never been found in appreciable amounts and was not thought to be a contributing cause to the explosion.

The explosion occurred at the end of the working shift, and all operations had ceased at the face excepting for blasting. Blasting was the only operation in progress which could have caused a dust cloud to be raised.

Permissible explosives were being fired, and coal dust was being used for stemming.

The propagation of the flame ceased in short distances after encountering rock dusted areas. On the 1 west main haulage road rock dust was not applied within the last 500 feet outby the face but propagation of the flame was smothered within 300 feet after encountering the rock dusted area.

Lessons to Be Learned from the Explosion

1) Mines which liberate little or no methane are not immune from widespread and tragic explosions if dry and dusty conditions exist therein and adequate measures are not taken to control the dust hazard.

2) This explosion forcefully demonstrates the need to re-evaluate the hazards of dust explosions. Heretofore, dusty conditions in mines have not been considered as constituting an imminent danger. In the future it may be necessary to withdraw the men from the mine, or from the portion where danger exists, until appropriate measures have been taken to remedy the dangerous conditions.

3) Partial rock dusting of mines leads to a false sense of security. In this explosion, rock dusting the haulage entries did not prevent the flame from propagating from room to room through the crosscuts. The conditions indicate that the explosion propagated itself mainly through rooms and died out as it reached rock dusted haulage roads and abandoned areas. Explosion hazards are mostly created at the face where dust is being made, and not on the haulage roads. The prevention of propagation of explosions from one room to another can only be accomplished by rock dusting all working places up to and including the last open crosscut.

4) Permissible explosives stemmed with coal dust and fired with a fuse in a dependent sequence are dangerous, and the right combination of circumstances may initiate combustion of coal dust suspended in the air.

5) There is strong evidence to support the belief that 44 men working in two sections of the mine, not affected by flame or violence, could have saved themselves if they had been properly instructed in the principles of erecting barricades.

Acknowledgment

In the preparation of this report free use has been made of data appearing in the following reports:

1. Final Report of Mine Explosion, No. 5 Mine, Centralia Coal Company, Centralia, Washington County, Illinois, March 25, 1947, by M. J. Ankeny, W. A. Gallagher, F. J. Smith, Frank Perz, and J. S. Malesky. United States Department of the Interior, Bureau of Mines.
2. Inspection of Centralia No. 5 Mine, by W. Gill, Wm. Mitchell, M. Reak, B. Schull. State of Illinois Mining Board of the Department of Mines and Minerals.

The list following gives the name, age, occupation and conjugal relation of each fatality.

FATAL ACCIDENTS

Date of injury	Date of death	Name	Age	Occupation	Residence	Name of operator of mine	Number or letter of mine	Married	Single	Widow	Children	Dependents	Cause of death
Mar. 25	Mar. 25	Raymond C. Buehne	30	Machine helper	Centralia	Centralia Coal Co.	No. 5	x	--	x	3	4	Explosion
"	"	Alfred Stevens	53	Machine operator	Beckemeyer	" " "	"	x	--	x	1	1	" "
"	"	Max Zonarini	65	Timberman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Clifford Copple	42	Motorman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	George Panceroff	24	Triprider	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Odia Lee Francis	70	Brattice man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Elmar G. Moss	33	Machine helper	Sandoval	" " "	"	x	--	x	4	5	" "
"	"	Martin Freeman, Jr	20	Tracklayer	Sandoval	" " "	"	x	--	x	1	2	" "
"	"	Edward Bude	54	Repairman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Fred Laughaunn	49	Machine man	Centralia	" " "	"	x	--	x	3	4	" "
"	"	Alva Petrea	56	Generator operator	Centralia	" " "	"	x	--	x	--	1	" "
"	"	John T. Pawlisa	22	Tracklayer	Centralia	" " "	"	--	x	--	--	--	" "
"	"	Forest Rhodes	45	Repairman	Sandoval	" " "	"	x	--	x	5	6	" "
"	"	Ned L. Jackson	34	Buggy operator	Odin	" " "	"	x	--	x	1	2	" "
"	"	Mark L. Watson	71	Pumper	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Dude Vancil	46	Motorman	Centralia	" " "	"	x	--	x	1	2	" "
"	"	Eugene Erwin	45	Clean-up man	Centralia	" " "	"	x	--	x	2	3	" "
"	"	Philip Knight	46	Machine helper	Centralia	" " "	"	x	--	x	1	2	" "
"	"	Walter Fetgatter	55	Machineman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Jacob Rethard	60	Machine operator	Centralia	" " "	"	x	--	x	--	1	" "
"	"	John Placek	45	Machine operator	Beckemeyer	" " "	"	x	--	x	3	4	" "
"	"	John Mazeka	46	Driller	Beckemeyer	" " "	"	--	x	--	--	--	" "
"	"	L. G. Shaw	44	Buggy operator	Centralia	" " "	"	x	--	x	1	2	" "
"	"	Anton Skrobul	63	Machineman	Beckemeyer	" " "	"	x	--	x	--	1	" "
"	"	H. W. Saundermeyer	47	Timberman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Stanley Teckus	54	Timberman	Centralia	" " "	"	x	--	x	1	2	" "
"	"	Charlie Cagle	54	Timberman	Centralia	" " "	"	x	--	x	4	5	" "
"	"	Joe Bryant	48	Motorman	Sandoval	" " "	"	x	--	x	6	7	" "
"	"	Harold J. Bryant	24	Triprider	Sandoval	" " "	"	x	--	x	--	1	" "
"	"	Joe Vancil	50	Foreman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Alvin M. Barnes	46	Foreman	Centralia	" " "	"	x	--	x	1	2	" "
"	"	Ray O. Smith	56	Foreman	Centralia	" " "	"	x	--	x	1	2	" "
"	"	John W. Gutzler	54	Foreman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Clarence Smith	56	Foreman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Harry A. Berger	54	Foreman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Theo. V. Carriaux	52	Foreman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Martin Pasola	50	Foreman	Sandoval	" " "	"	x	--	x	--	1	" "

FATAL ACCIDENTS—Concluded

Date of injury	Date of death	Name	Age	Occupation	Residence	Name of operator of mine	Number or letter of mine	Married	Single	Widow	Children	Dependents	Cause of death
Mar. 25	Mar. 25	Fred W. Gutzler	57	Driller	Centralia	Centralia Coal Co.	No. 5	x	--	x	--	1	Explosion
"	"	Georg Evans	43	Clean-up man	Sandoval	" " "	"	x	--	x	--	1	" "
"	"	Joseph Spinner	57	Clean-up man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Rodrigo Alvarex	50	Timberman	Beckemeyer	" " "	"	x	--	x	--	1	" "
"	"	Pete Lenzini	62	Driller	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Miles McCullum	65	Driller	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Otto Buehne	62	Clean-up man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Thomas M. Bush	63	Clean-up man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Jos. H. Peiler	46	Machine helper	Beckemeyer	" " "	"	x	--	x	--	2	" "
"	"	Henry Hoeinghaus	56	Motorman	Woodlawn	" " "	"	x	--	x	--	1	" "
"	"	Frank Copple	38	Brattice man	Centralia	" " "	"	--	x	--	--	--	" "
"	"	Ray W. Fouts	47	Triprider	Centralia	" " "	"	x	--	x	2	3	" "
"	"	Anton Chirrottino	65	Tracklayer	Sandoval	" " "	"	x	--	x	--	1	" "
"	"	Joseph Koch, Sr.	65	Clean-up man	Beckemeyer	" " "	"	x	--	x	2	3	" "
"	"	Julius Piazzi	27	Rock man	Centralia	" " "	"	--	x	--	--	--	" "
"	"	Luther J. Frazier	41	Driller	Beckemeyer	" " "	"	x	--	x	2	3	" "
"	"	Domenico Lenzini	59	Timberman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	George Powell	40	Trackman	Odin	" " "	"	x	--	x	--	1	" "
"	"	Fred Moore	49	Timberman	Centralia	" " "	"	x	--	x	3	4	" "
"	"	Joe Zinkus	54	Timberman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Archie Schofield	50	Machine man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Louis Piazzi	63	Machine man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Brund Gaertner	47	Machine operator	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Carl Rohde	46	Machine man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Warrie L. Jackson	55	Motorman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Anthony Tickus	24	Recovery man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Daniel C. Sanders	66	Driller	Irvington	" " "	"	x	--	x	--	1	" "
"	"	Joe Ballatini	58	Driller	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Alfred O. Pollacci	69	Clean-up man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Anton Tillman	67	Clean-up man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Leo R. Dehn	53	Clean-up man	Centralia	" " "	"	x	--	x	1	2	" "
"	"	Glen Purcell	34	Motorman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Ed. Hofstetter	68	Tracklayer	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Celso Biagi	62	Tracklayer	Centralia	" " "	"	--	x	--	--	--	" "
"	"	Chas. McGreavey	57	Machine man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	John H. Gutzler	63	Machine man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	John Pick	56	Machine operator	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Adolph Gutzler	48	Machine helper	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Andrew Farley	58	Clean-up man	Beckemeyer	" " "	"	x	--	x	--	1	" "
"	"	Clarence McHenry	50	Clean-up man	Centralia	" " "	"	x	--	x	--	1	" "

Mar. 25	Mar. 25	Arthur H. Carter	54	Tracklayer	Centralia	Centralia Coal Co.	No. 5	x	--	x	--	1	Explosion
"	"	Pietro Ballantini	69	Driller	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Richard Privette	39	Timberman	DuBois	" " "	"	x	--	x	2	3	" "
"	"	Emmett Uhls	49	Machine helper	Sandoval	" " "	"	x	--	x	--	1	" "
"	"	Martin Freeman, Sr.	39	Machine man	Centralia	" " "	"	x	--	x	1	2	" "
"	"	Gustave Holman	54	Motorman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	H. W. Niepoetter	42	Machine man	Sandoval	" " "	"	x	--	x	1	2	" "
"	"	Joseph Gerotti	36	Triprider	Centralia	" " "	"	--	x	--	--	1	" "
"	"	Albert J. Friend	36	Triprider	Richview	" " "	"	x	--	x	1	2	" "
"	"	William Mentler	61	Tracklayer	Centralia	" " "	"	--	x	--	--	--	" "
"	"	Carles L. Peart	60	Tracklayer	Sandoval	" " "	"	x	--	x	--	1	" "
"	"	Nick Basola	43	Clean-up man	Sandoval	" " "	"	x	--	x	5	6	" "
"	"	Joe Altadonna	60	Timberman	Sandoval	" " "	"	x	--	x	--	1	" "
"	"	Paul Comper	53	Machine man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	John Figielek	48	Machine man	Centralia	" " "	"	--	x	--	1	1	" "
"	"	John Busse	59	Machine operator	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Nick Reggo	57	Timberman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Angelo Gallassini	61	Driller	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Louis Grotti	45	Driller	Centralia	" " "	"	--	x	--	--	--	" "
"	"	Jacob Schmidt	56	Driller	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Frank Paulauskis	62	Clean-up man	Centralia	" " "	"	--	x	--	--	--	" "
"	"	Tony Giovanini	65	Timberman	Sandoval	" " "	"	x	--	x	--	1	" "
"	"	Andrew Spinner	51	Trackman	Sandoval	" " "	"	--	x	--	--	--	" "
"	"	Henry Knicker	59	Trackman	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Walter Pelker	31	Timberman	DuBois	" " "	"	x	--	x	2	3	" "
"	"	Dominick Beneventi	64	Machine helper	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Dominick Gervi	53	Timberman	Sandoval	" " "	"	x	--	x	2	3	" "
"	"	James Tabor	42	Driller	Centralia	" " "	"	x	--	x	1	2	" "
"	"	Frank Famera	50	Machine man	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Charles Kraus	52	Recovery man	Centralia	" " "	"	--	x	--	--	--	" "
"	"	Peter Piasse	46	Machine operator	Sandoval	" " "	"	x	--	x	--	1	" "
"	"	Chas. Oestreich	61	Driller	Centralia	" " "	"	x	--	x	--	1	" "
"	"	Wm. F. Fortmeyer	25	Buggy operator	Irvington	" " "	"	x	--	x	2	3	" "
"	"	John O. Grotti	32	Tracklayer	Mt. Vernon	" " "	"	x	--	x	--	1	" "

—Harold L. Walker, *Director.*

EXPLOSION, OLD BEN COAL CORPORATION MINE NO. 8

West Frankfort, Franklin County

The Old Ben Coal Corporation Mine No. 8 is located in the southern outskirts of West Frankfort, Franklin County, Illinois. An explosion of methane gas, accompanied by a limited combustion of coal dust, occurred in this mine at 12:35 p. m., July 24, 1947, resulting in the death of 27 men. All of the deaths were due to burns and violence resulting from the explosion. Four men in the immediate explosion area were rescued but one man died approximately ten hours after being taken to the surface. At the time of the explosion 264 men were in the mine, and all those not in the immediate area of the explosion escaped, unaided. A number of the men did not know an explosion had occurred until after reaching the surface. Four hundred ninety-five men were employed at the mine, of whom 382 men were employed underground in two shifts. The average production of coal amounted to approximately 3,500 tons per day. The mine had experienced two previous explosions on January 14, 1921, and December 1, 1929, which resulted in the death of eight men and injury to 20 others.

General Information Concerning the Mine

The hoisting shaft is 464 feet deep and is used as an upcast. An additional upcast, 464 feet deep, is located 285 feet west of the hoisting shaft. The intake air shaft is 464 feet deep and is located 6,312 feet south of the hoisting shaft. The ventilating fan is located on the surface, is of the centrifugal type, operated blowing, and delivers approximately 118,000 cubic feet per minute at the downcast.

The room and pillar method of mining is practiced, with each pair of room entries forming a panel. The barrier pillars are extracted. The explosion occurred in the 13 and 14 east entries off the main south entry, where barrier pillars were being pulled. The 13 and 14 east entries had been advanced and room panels finished to the 21 and 22 north and south room-panel entries. The barrier pillars had been extracted from the head and back to the pillar between the 8 and 9 north and south room-panel entries. The 13 east entry was the parting and haulage entry and was on return air. The 14 east entry was on intake air, and track had been installed for pillar pulling.

The 13 and 14 east entries are approximately 10,100 feet south of the main hoisting shaft, approximately 4,100 feet from the face on the main south entry, and approximately 3,700 feet from the auxiliary air and escape shaft. The barrier pillars are approximately 500 feet long and 225 feet in width.

The mine operates in the Illinois No. 6 coal bed, which averages 90 inches at this mine. The mine is considered gassy by the Illinois Department of Mines and Minerals and by the United States Bureau of Mines. Methane gas had been detected, by the use of the flame safety lamp, 120 times in the 60 days previous to the last inspection by the State mining inspector on May 28, 1947.

Cardox was used for breaking down coal. However, Airdox had been installed and was in use in one section at the time of the explosion. Coal was broken down off-shift and after the men had been removed from the mine. The mine was well rock-dusted on the floor, ribs, and roof; and in addition rock-dust bags were installed in the 13 and 14 east entries. Rock dust had been applied in the 13 and 14 east entries the night before the explosion.

The mine employed six certified examiners for pre-shift examination of the mine. Certified face-bosses made on-shift inspections for gas and other hazards. Rules prohibiting smoking had been adopted but there was considerable evidence to indicate that the men are continuing to smoke underground.

General Information Concerning the Explosion

The mine was operating normally and no unusual conditions had been reported prior to the explosion. The ventilating fan was operating properly, and no interruptions to ventilation had occurred.

The mine examiner's report for July 24 showed normal conditions and did not show the presence of gas, nor had gas been reported in the examiner's book for the previous 13 working days. The examiner's report showed 6,600 cubic feet of air per minute at the last open crosscut. The State mine inspector found 12,800 cubic feet of air during his last inspection on May 28. Because of a roof fall the examiner could not examine beyond a distance approximately 500 feet inby the last working place (200 feet inby 10 north and south panels).

On the day of the explosion the barometric pressure was recorded as 29.78-29.82 inches of mercury, by three separate barometers in the immediate vicinity. The barometer had been almost constant for three consecutive days.

Damage from the explosion was confined to the immediate area in the 13 and 14 east entries. Two concrete-block stoppings and three ventilating doors were destroyed. Cross bars and timbers were blown out, permitting a few small roof falls. No extensive damage was done to the equipment, and the equipment was recovered during the night of July 24-25.

Five State mine inspectors and two State mine rescue teams assisted in rescue work and recovery of the bodies. The last body was located at 11:30 p. m. and was brought to the surface about 12:30 a. m., July 25.

Following the explosion frequent inspections were made for methane gas, with flame safety lamps, but none was reported. The Federal Bureau of Mines had reported methane contents of approximately 0.35% in a previous inspection.

All forces resulting from the explosion were outby from the abandoned workings. Exploration could not be carried further than 200 feet inby the 9 and 10 panels because of a fall. The flame of the explosion ceased at approximately the 5 and 6 panels, and the force of the explosion ceased at approximately the 3 and 4 panels.

The last working place was inby the 7 and 8 panels. The trolley wire extended approximately 100 feet inby the 7 and 8 panel, and the track extended approximately 150 feet inby the end of the trolley.

The controllers on all motors, the cutting machine, the loading machine, and drills, were found in the off position. A drill had been mounted in a room outby the 7 north panel but, while the nips were on the trolley wire, the drill had not been operated.

A gathering motor with one empty car was found on the 13 haulage entry at the 8 north panel. The body of the motorman on the motor was found about 60 feet inby the 8 south panel on the 14 entry, together with five other bodies. The nip of the motor was on the trolley wire. The gathering motor had gone inby, prior to the explosion, with empty cars and had removed loaded cars from rooms inby the 8 north panel and spotted empty cars in these rooms. Testimony of two of the three survivors (see Appendix A) indicated they were sitting on a motor outby the 5 north panel and watching the motor go inby when the explosion occurred. This testimony can apparently be discounted because the motor had been inby a sufficient time to do switching. The third survivor estimated he had seen the motor go inby approximately 10 minutes before the explosion, and this seems more reasonable.

Heavy deposits of coke were found on the inby side of timbers and coal surfaces inby the area where men were working and beyond the 10 south panel. Nearly all of the props (very tight from roof pressure) had been loosened by the explosion and piled criss-cross near the 10 south panel entrance. A few remaining props were loosened from the roof and these were leaning westward (outby). The inspection party agreed that the violence was due west, was very strong, and the temperature was very high in the area near 10 south panel.

In the area near the 7 and 8 north and south panel soot markings on the roof crossed room necks without entering the rooms, with the exception of room 2 inby 8 north panel, which contained soot markings and a medium amount of coke particles. In this room the forces were definitely from the face toward the entry.

The explosion was definitely due to the ignition of an accumulation of methane gas and was accompanied, on a small scale, by combustion of coal dust. The explosion failed to propagate, and was confined to a small localized section, as a result of recent and liberal applications of rock dust by the generalized method and by bag suspension; and both methods were effective in smothering the combustion of the coal dust. Rock dust will effectively prevent the propagation of coal combustion, but it does not prevent the ignition of methane gas nor does it prevent the propagation of methane gas flame. The combustion of coal dust was very largely confined to the area inby the active working places.

The loading machine and cutting machine were located outby the 7 north panel. The loading machine had broken down 1½ hours prior to the explosion, and was partly dismantled for repairs. The cutting machine was parked, and neither machine was connected to the trolley.

Smoke and fumes, indicating an active fire, were found in the vicinity of room 7 inby 10 south panel during the inspection on July 25. Because of the probable presence of an active fire in the abandoned workings, the 13 and 14 east entries were sealed near the main south entry.

Possible Causes of the Explosion

The possibility of ignition of the methane gas by drills, the loading machine, and cutting machine, can be discounted because none of the machines were in operation at the time of the explosion.

The possibility of ignition of the gas by men smoking in the area cannot be disregarded. Burned match stubs and other evidence of smoking was found in the mine and in the cars of mantrips. Employees taking part in the rescue work following the explosion deposited matches and smoking materials above ground before re-entering the mine. During the process of identification of the bodies in the temporary morgue, matches and other smoking materials were recovered from at least seven, and perhaps more of the bodies. The evidence definitely indicates that employees were smoking underground in spite of the fact that a no-smoking rule was in force. There is a very good possibility that the ignition of gas was caused by smoking in room 2 inby the 8 north panel, (bodies were found near the face of this room), for it was in this room that explosion forces were observed to be outby, and soot and coke particles were in evidence. There could have been an accumulation of gas in this room, prior to the explosion, in spite of the fact that no gas was found following this explosion. It is also possible that gas could have moved into the active working area from the abandoned workings, and ignition of this gas could have been caused by smoking, and the flame could have followed a gas trailer into the abandoned workings. Because of the tight area in the abandoned works the force of the explosion would have rebounded into the active workings and could have been accompanied by the combustion of coal dust, which was smothered by the rock dust. At least one person in the inspection party initially proposed that the nucleus of ignition was in this area, even though no known source of ignition was then in evidence. The testimony of one of the survivors speaks of a number of pressure waves being felt.

The possibility of the ignition of the gas by the gathering motor at the 8 north panel is questionable because there is no positive evidence that the motor was in operation at the time of the explosion. Since the motor has been switching in the immediate area it is more reasonable to suspect that the ignition would have occurred when the motor entered the area. Since the motor was located at the 8 north panel it is reasonable to expect that the flame and force of the explosion would have penetrated the 7 and 8 panels, but this was not the case to any appreciable extent. The body of the motorman for the motor was found about 60 feet inby the 8 south panel on the 14 entry. For the body to be in this location there are three possibilities: (a) the motorman was in the 14 entry visiting with five other men at the time of the explosion; (b) the body was blown through the demolished door in the crosscut by the force of the explosion, but the motor was not located opposite the crosscut; (c) the motorman walked into the 14 entry following the explosion, but this is scarcely possible when the force of the explosion in this area is considered, and the fact that men in nearby rooms were apparently killed almost instantly.

The possibility that gas accumulated in the abandoned workings and was ignited by (a) spontaneous combustion of mine wastes of gob, or (b) sparks produced by roof falls is supported by the evidence and data collected. Smoke and fumes were observed at approximately room 7 inby 8 south panel which was indicative of the presence of a fire in the abandoned area. Whether the fire existed prior to the explosion is of course unknown. The odor of a gob fire is usually easy to detect, but a fire could have existed from spontaneous combustion of old timbers, rags, or paper waste. It is also entirely possible for high-temperature sparks to be created by falls of rock and pyrites from the roof.

Conclusions and Lessons Learned

1. The explosion was caused by the ignition of an accumulation of methane gas and was accompanied, on a small scale, by the combustion of coal dust.

2. The exact source and cause of the explosion could not be determined and is unknown. It is believed the source could have been: (a) in the abandoned areas, or (b) in room 2 inby the 8 north panel. The cause of ignition could have been: (a) spontaneous combustion or sparks caused by a fall of roof, or (b) smoking by personnel.

3. No data or evidence have been found which indicate the explosion was due to the negligence, or violation of State Mining Laws, by any individual or group of individuals now alive.

4. The main lessons learned from this explosion are: (a) where active working places are adjacent to abandoned areas, a hazard may be created by accumulations of gas in the abandoned areas. Abandoned areas should be properly ventilated and examined, or when proper ventilation and examination become impossible the areas should be sealed off from the active working areas. A ruling to this effect has subsequently been made by the mining board; (b) smoking by personnel in gassy mines is extremely hazardous. A State law prohibits smoking in gassy mines and the personnel in such mines should not consider it to be their personal right to violate the law and endanger the lives of all personnel in the mine.

The list following gives the name, age, occupation and conjugal relation of each fatality:

FATAL ACCIDENTS

Date of injury	Date of death	Name	Age	Occupation	Residence	Name of operator of mine	Number or letter of mine	Married	Single	Widow	Children	Dependents	Cause of death
July 24	July 24	Louis Marlow	43	Tracklayer	Herrin	Old Ben Coal Corp.	No. 8	--	x	--	--	--	Explosion
"	"	Thomas F. Bower	25	Tracklayer	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	Peter DeJulius	42	Electrician	West Frankfort	" " " "	"	x	--	x	5	6	" "
"	"	Herbert D. Bidwell	49	Electrician	West Frankfort	" " " "	"	x	--	x	--	1	" "
"	"	Thomas M. Palmer	41	Triprider	West Frankfort	" " " "	"	--	x	--	1	1	" "
"	"	George Raymond	60	Clean-up man	West Frankfort	" " " "	"	--	x	--	--	--	" "
"	"	Gustave Gaubautz	48	Clean-up man	West Frankfort	" " " "	"	x	--	x	--	1	" "
"	"	J. Marion Childers	74	Clean-up man	West Frankfort	" " " "	"	x	--	x	--	1	" "
"	"	Louis F. Owens	51	Machine man	Johnston City	" " " "	"	x	--	x	1	2	" "
"	"	Willis Willard	41	Machine man	Marion	" " " "	"	x	--	x	6	7	" "
"	"	James T. Wilson	37	Machine operator	West Frankfort	" " " "	"	x	--	x	2	3	" "
"	"	Raymond C. Stevens	32	Machine helper	Benton	" " " "	"	x	--	x	2	3	" "
"	"	Robert W. Wicker	62	Clean-up man	West Frankfort	" " " "	"	x	--	x	--	1	" "
"	"	Willie Ray Smith	46	Driller	Thompsonville	" " " "	"	x	--	x	--	1	" "
"	"	Adolph Nickelvich	36	Driller	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	George D. Griffith	41	Asst. Mine Manager	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	Curtis O. Stagner	43	Motorman	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	Horace M. Walton	44	Triprider	West Frankfort	" " " "	"	--	x	*	--	1	" "
"	"	John P. Yattoni	32	Triprider	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	John Sebben	57	Timberman	Johnston City	" " " "	"	x	--	x	1	2	" "
"	"	Clesta Berra	60	Timberman	Herrin	" " " "	"	x	--	x	--	1	" "
"	"	Thomas McPheron	64	Timberman	Johnston City	" " " "	"	x	--	x	1	2	" "
"	"	Hiram B. Chitwood	22	Tracklayer	Johnston City	" " " "	"	--	x	*	--	1	" "
"	"	Domenico Pircentini	67	Tracklayer	West Frankfort	" " " "	"	x	--	x	--	1	" "
"	"	Giles C. Summers	46	Tracklayer	Benton	" " " "	"	x	--	x	--	1	" "
"	"	Gus. G. Grant	59	Tracklayer	Johnston City	" " " "	"	x	--	x	--	1	" "
"	"	Arthur Fritts	29	Tracklayer	West Frankfort	" " " "	"	x	--	x	2	3	" "

* Mother.

—HAROLD L. WALKER, *Director.*

EXPLOSION, THE CHICAGO, WILMINGTON AND FRANKLIN COAL COMPANY, ORIENT NO. 2

West Frankfort, Franklin County

The Chicago, Wilmington and Franklin Coal Company, Orient Mine No. 2, is located in the northwestern outskirts of West Frankfort, Franklin County, Illinois. An explosion of methane gas occurred in this mine at 7:30 p. m., August 14, 1947, resulting in the death of three men and slight injury to two others. The deaths were due to violence and burns from the explosion. Eighty-nine men were in the mine at the time of the explosion and, excepting for the three fatalities and two injured men, all escaped from the mine unaided. The mine employed a total of 1,150 men, of which 925 were employed underground in two shifts. The average daily production of coal amounted to 10,000 tons.

General Information Concerning the Explosion

The explosion occurred near the face of the 15 north entry off the 23 west main north. The area was under development, and the face was 655 feet away from the 23 west north entries. The 15 and 16 north entries are 4,435 feet from the main north haulage. The 23 and 24 west north entries are 1,915 feet north of No. 4 upcast shaft, and 5,300 feet north of No. 3 downcast shaft.

The mine was operating under normal conditions: no irregularities had been reported nor had there been an interruption in the main ventilation system. The explosion occurred a short time after the men had entered the explosion area, at the beginning of the night shift. The mine had not operated during the day shift on July 14, 1947. The barometric pressure was comparatively steady at 29.70 inches of mercury.

Mine Inspectors J. Golden, E. Edmonds, R. McCluskey and J. Sneddon, and mine rescue teams from Benton and Herrin assisted in the rescue work following the explosion. Assistant Director Robert Weir, Mine Officer M. Reak, and Mine Inspectors J. Golden, E. Edmonds, and Ray McCluskey went underground on the afternoon of July 15 for the purpose of inspecting the explosion area and collecting data concerning the cause of the explosion. Mine Officer M. Reak prepared a written report of the inspection for the Department of Mines and Minerals.

The explosion was due to the ignition of an accumulation of methane gas near the face of the 15 north entry. The flame ceased at approximately the 1 and 2 stubs (450) feet outby the face in 15 N. entry, and ceased approximately 75 feet from the face of the 16 N. entry. The force of the explosion ceased outby the 13 and 14 N. entry in 23 and 24 N. W. entries. The two men who were slightly injured were approximately 25 feet outby the 23 N. and S. entries on the 23 N. W. entry. These two men were struck by coal particles, but experienced no difficulty in getting into the air course and escaping.

All brattices and trap doors on the 15 and 16 N. entries were blown out. Two brattices on the main entry east and two brattices on 23 E. entry (past 15 and 16 N.) were blown out. Eleven of twelve brattices in 1, 2, 3 and 4 stubs were blown out. An 8 ton gathering motor parked at 1 and 2 stubs on 15 N. entry was damaged and the reel had been blown toward the mouth of the entry. A cutting machine was parked a few feet inby the 3 and 4 stubs on the 16 N. entry, but the machine was not damaged. A drill post had been mounted in the 16 N. entry where the 5 and 6 stubs were being turned. The place had been partly drilled, but the drilling had been done the day before. The drill lay on the ground and had not been used on this shift. The blower fans were located approximately 15 feet outby the last open crosscut on the 15 N. entry. One of the blowers ventilated the face of the 15 N. entry. The other blower had tubing attached, which passed through the last open crosscut and down the right rib of the 16 N. entry, and was used to ventilate the face of the 16 N. entry. These two blowers were overturned, but were in operating condition after the explosion.

In the 15 N. entry a cutting machine was located near the face and had started cutting a crosscut between the 15 and 16 N. entries. One cut had been taken on each entry and, if the cut on the 15 N. entry had been completed, the crosscut would have been through and completed. The cutting machine had sumped in approximately one foot.

There was only one open crosscut on the 15 and 16 N. entries. The distance from the inside rib of the last open crosscut to the face was 55 feet. Rock dust had been adequately applied to about the last open crosscut.

The 15 and 16 N. entries had been opened since the last State inspection, and air readings were not available in State reports. Mr. Charles Pullen reported 10,080 cubic feet per minute of air in the last open crosscut just past the 3 and 4 stubs on July 10, 1947. A U. S. Bureau of Mines report of inspection showed 9,000 cubic feet of air per minute and 0.82 per cent of methane at the last open crosscut near 1 and 2 stubs. No entries concerning ventilation had been made in the examiner's book by the mine examiner.

The bodies of two fatalities were found approximately 15 feet outby the cutting machine on the 15 N. entry. The third body was found at the right rib and near the last crosscut on the 16 N. entry.

Two men had gone into the 15 N. entry, a few minutes before the explosion, to get a Clarkson loading machine. These men had parked the gathering motor at the 1 and 2 stubs and taken the loading machine out onto the 23 W. N. entry and had gone approximately 1,000 feet east when the explosion occurred. These men were not injured. These two men later testified that no doors were open on the 15 and 16 N. entries when they were in the entries to get the loading machine.

The cutting machine at the face on the 15 N. entry had just reached a level area after completing a plus 10 percent grade. The entry between the last two stubs was uphill and afforded an excellent opportunity for gas to collect and not be moved away from the face.

Gas was found in all the places on the 15 and 16 N. entries during the inspection on the following day. This gas had collected on account of the uphill grade and because of the small amount of air being directed into the entries until permanent ventilation could be restored.

The examiner's report for the day shift shows the presence of gas on August 5, 11 and 12, and in the 16 N. entry and gas on August 8 in the 15 N. entry. The night examiner last reported gas in the 15 N. entry on August 7. These entries had not been examined by the night examiner on August 14.

Testimony offered at a hearing before the Mining Board on August 18 indicates these entries were examined at 1:40 p. m. on August 14, and gas had not been detected. The night mine manager testified he had instructed the face boss to examine the entries, and the miners were instructed not to enter the area until after the examination had been made. The face boss was delayed in reaching the area, and the miners entered before an examination had been made. Because the mine had not been examined before the miners entered there was a violation of the General Mining Laws, Section 19, paragraph 20 (a)-5, therefore, the certificate of competency of the night mine manager was suspended by the Mining Board.

Probable Cause of the Explosion

1. The explosion was definitely due to the ignition of an accumulation of gas near the face of the 15 N. entry.
2. The cause for the accumulation of gas is unknown, but was probably because of an interruption of ventilation due to one or more of the following:
    - A. A trap door left open; however, the evidence does not support this reason.
    - B. A fall of coal in the entry which could have torn down the tubing attached to the blowers.
    - C. A power failure resulting in the blowers not operating before the men entered the area, allowing the gas to accumulate.
3. The cause of the ignition of the gas is unknown, but may have been due to the following:
    - A. Electrical arcs from either the cutting machine or blower fans.
    - B. Sparks caused by the cutting bits encountering hard cutting conditions. The cutting machine was operated following the explosion and hard cutting was not indicated.
    - C. The possibility of smoking by personnel is not excluded. The undertaker stated no smoking materials were found on the men, but it is well known that smoking takes place in this mine.

The list following gives the name, age, occupation and conjugal relation of each fatality:

FATAL ACCIDENTS

Date of injury	Date of death	Name	Age	Occupation	Residence	Name of operator of mine	Number or letter of mine	Married	Single	Widow	Children	Dependents	Cause of death
Aug. 14	Aug. 20	C. H. Clark	53	Driller	West Frankfort	Chicago, Wilmington & Franklin Coal Co.	New Orient	x	--	x	--	1	Explosion
"	"	George L. Filkins	46	Machine man	West Frankfort	" " " "	"	x	--	x	--	1	" "
"	"	Walter Clements, Jr.	32	Machine man	West Frankfort	" " " "	"	x	--	x	--	1	" "

—HAROLD L. WALKER, *Director.*

ROOF FALL ACCIDENT

On December 5, 1948, a rock fall at the Chicago, Wilmington & Franklin Coal Company's Orient mine No. 1, Orient, Franklin County, killed three men. They were two timbermen and one foreman. This was caused by a fall of rock on an entry at its No. 2 room neck. There was an "I" beam across No. 2 room neck, also an "I" beam across the 45 degree crosscut opposite No. 2 room neck. The "I" beam at the 45 had been moved west six feet and its moving had been completed. Timbermen were going to put another crossbar at the south end beyond the "I" beam and had set the legs when the fall occurred. All of these men except one were of long experience as timbermen. The State mine inspector's opinion of the accident is that the "I" beam at the room neck tripped.

RUNAWAY PIT CAR

On October 24, 1950, a runaway coal car at Lumaghi Coal Company's No. 4 mine, Collinsville, Madison County, fatally injuring three men. Three men died and three were injured, one seriously, as a result of this accident. One man died on arrival at the hospital, one three hours later, and the third man died 12 hours later.

The men were using a wooden mine car which was coupled to a steel car by link and pin. The steel car was being used as a mantrip car in the slope. It was attached to a 1 inch wire rope by three 1 inch clamps. The wooden car was used for lowering limestone rock down to the slope bottom to ballast the track and landing platform. At about three minutes before 2:00 p. m., which is the regular quitting time for the day shift, the cars were pulled to the surface 27½ feet from the slope portal and past the 60 pound steel switch which leads to the yard. According to the regular practice the engineer should have been signaled to lower the car into the material track clear of the switch before uncoupling. This was not done.

Five men were prepared to set the material car off to the yard. Two men were at the track switch, one on each side of the latches. One was waiting to uncouple the material car, one was at the signal controls located at the slope portal, and one had charge of the motor. One man set the switch latches for the material track, and the motorman ran the locomotive against the trip and coupled on to the material car. The man waiting above uncoupled the material car. The man at the switch said that as the motor started down the material track it knocked the switch latches half open and one of the men tried to knock the switch latch back over with a spike bar, but failed. When the car hit the latches it lined them back for the slope track, leaving the car on the slope track and the motor on the material track. As the car coasted and pushed the motor in the clear, it also uncoupled from the motor (a goose-neck coupling on the car) and continued down the slope. The assistant mine manager had sent twelve men, which constitutes a mantrip, from the waiting station to the landing platform, which is a distance of about 60 feet. Then someone shouted, "The car is coming back down the slope," and the red light signal was flashing about halfway down the slope. Four of the twelve men stepped to the belt side of the slope and one to the right rib of the east entry. The other eight men, which included the signal control man, ran down the east entry to get in the crosscut, which is also the waiting station. The car left the track at the curve going into the first east entry and followed the left rib, stopping on the entry about nine feet inby the crosscut. The three deceased were hit by the car before they could get in the clear.

EXPLOSION, THE CHICAGO, WILMINGTON AND FRANKLIN COAL COMPANY, NEW ORIENT MINE NO. 2

West Frankfort, Franklin County

On the night of December 21, 1951, at 7:38 p. m., an explosion occurred at the New Orient No. 2 mine of the Chicago, Wilmington and Franklin Coal Company located at West Frankfort, Franklin County, Illinois. The explosion was responsible for the death of 119 men, whose names, addresses, and occupations appear in this report. Because the explosion was exceedingly violent, a large number of the men were killed by flame and violence. The additional deaths were due to carbon monoxide poisoning.

Mr. William J. Johnson, assistant director, and eighteen State mine inspectors with the seven State mine rescue teams and the rescue team from the Union Colliery Company, cooperating with twenty-three Federal mine inspectors, assisted in the rescue and recovery work.

General Information

Historical Background: The New Orient Mine No. 2 at West Frankfort, Franklin County, Illinois, was developed by the Chicago, Wilmington and Franklin Coal Company in 1922. The mine started in production in 1923, and since that time has produced 51,952,470 tons of coal up to December 31, 1951. The mine is opened by four shafts, varying from 500 to 565 feet deep, into the Illinois No. 6 coal bed, which averages 110 inches in thickness.

The mine was originally developed by the room and pillar method with 16 rooms driven right and left off the panel. The main and cross entries were driven in sets of five. The cross entries were driven at intervals of 1,608 feet. Subsequently the mining method was changed to the panel room and pillar method which may be described as follows:

1. Panel entries are driven off the cross entries in sets of four at intervals of 572 feet. The panel entries are on 40 foot centers, 12 feet wide, and approximately 700 feet deep.

2. Stub entries are turned off the panel entries in sets of three, each set on 200 foot intervals. The stubs are on 32 foot centers and are driven approximately 350 feet deep.
3. Rooms, on 35 foot centers, are driven off each set of stubs to a depth of approximately 100-110 feet.
4. Turned off of each set of panel entries are three sets of stub entries and rooms, as described in 2 and 3 above; thus each panel entry has three sets of stubs and each set of stubs has three stub entries.
5. The set of stubs farthest removed from the cross entry is first worked to the boundary. This set of stubs is then abandoned and the second set of stubs is worked until the rooms reach within 20 feet of the previous set of stubs, thus leaving a 20 foot pillar between the first and second set of stubs. The same procedure is followed to recover the coal from the last set of stubs. The stubs are numbered in the reverse order in which they are worked, or the last set worked is No. 1 set of stubs and the first set worked is No. 3 set of stubs.

Ventilation and Gases: The mine was ventilated by two electrically driven fans operated blowing. The fans ran 24 hours a day and were equipped with recording pressure gauges and signals, as required by the Illinois State Mining Law.

One of the fans is of the centrifugal type and is offset more than 25 feet from the auxiliary shaft. The fan produces 90,000 cubic feet of air per minute at a water gauge pressure of two inches. The air is divided into two splits, east and north, and ventilates the main bottom and haulage roads up to the 17 east.

A second fan, electrically driven and of aero-dynamic type, is located at the No. 3 shaft and ventilates all of the active working areas of the mine. The fan produces 325,000 cubic feet of air per minute at a water gauge pressure of 6.75 inches. The air was divided into nine air splits, as follows: 17 east main north; 19 east main north; 21 east main north; 25 east main north; 27 west main north; 27 east new main north; 27 west new main north; 25 west new main north; and 23 west new main north.

Air in the last open crosscuts, between entries, throughout the mine, was measured at 10,300 to 12,600 cubic feet per minute. The measurements of the air were taken by pre-shift mine examiners within four hours preceding the shifts going on duty, and were also measured by State mine inspectors once every 30 days.

All stoppings and overcasts were erected of incombustible and substantial materials. Trap doors were built singly and had attendants.

The mine is classified as gassy by the Illinois Department of Mines and Minerals and by the Federal Bureau of Mines. The mine is operated as a closed-light mine, which requires the mine to be examined by certified mine examiners within four hours preceding the time the shift goes on duty. A report of the examination must be made and signed by the mine examiners in a book kept for that purpose. The mine manager must ascertain that the report of examinations have been made before the men are permitted to enter the mine.

Dust: In general the mine is dry and dusty. Water sprays are installed on all the cutting machines to allay dust during coal cutting operations. Water is used in all drill holes, where Airdox is used, before the coal is broken down. After the coal is broken down, and before loading machines load it, water is sprayed over the coal to allay the dust produced by the loading operation.

The Illinois Mining Law required the mine to be rock-dusted up to and including the last open crosscut, in all entries and rooms. The Illinois Mining Law requires that all dust in mines shall have a minimum of 65% incombustible material. The State mine inspector for the 16th district and the Franklin County mine inspector completed an inspection of the mine during December 4-12, 1951, inclusive. The mine inspectors' report stated that the rock dusting in the mine was 95% (without further explanation). There was no complaint from the mine inspectors as to the condition of the coal dust, nor was any recommendation made to improve the dust conditions in the mine.

The coal company records show that the company, during the year 1951, used 727 tons of rock dust in the mine.

Story of Rescue and Recovery Operations

I was informed by the United Press, about 10:00 p. m., that there had been an explosion at the Chicago, Wilmington and Franklin Coal Company's mine, New Orient No. 2, located at West Frankfort. I tried to call the mine by long distance telephone and only after considerable difficulty did I finally succeed in contacting Mr. John Foster, superintendent of the mine.

Mr. Foster informed me about the explosion and also said that James Wilson, the State mine inspector of the district; Murrell Reak, State inspector-at-large; and five other district inspectors were already there with the State mine rescue teams from Benton, Herrin, DuQuoin, Eldorado, and the Union Colliery Company team from DuQuoin; and that rescue and recovery work had already been started.

Accompanied by Assistant Director William J. Johnson, I soon thereafter left Springfield and arrived at the mine at approximately 4:30 a. m., December 22, 1951. Upon arriving at the mine, and being informed of the extent and violence of the explosion, Mr. Johnson and I instructed the Springfield, Belleville, and Benld mine rescue teams and eight additional State mine inspectors to proceed immediately to the mine and to assist with the recovery operations.

The recovery work was started at the portal shaft on the main north close by the 21 west. Rescue teams and recovery workers had to travel from the main north through the 21 west to the junction with the new main north. Rescue and recovery progressed on the new main north up to the 23 west new main north. On the new main north haulage, between the 23 and the 27 west junction, seven bodies were recovered and three others rescued, one of whom died later.

At the 25 west new main north, it was discovered that the stoppings between the intake and return air courses were destroyed and the ventilation was shorted. The mine rescue teams had to use breathing apparatus to advance ahead and investigate for fires before re-establishing ventilation in the areas. Ventilation was established by erecting canvas stoppings and this procedure was followed to the intersection of the 27 west new main north. It was discovered an overcast was blown out at the junction of new main north and 27-28 east and west causing the air to be short circuited into the 27 and 28 east new main north and preventing ventilation in the 27 and 28 west new main north. After a consultation between coal company officials and State and Federal mine inspectors, it was decided that there was a possibility that the men working in the 27 and 28 west new main north were still alive. It was, therefore, decided to concentrate all rescue and recovery operations into the 27 and 28 west new main north. Work was slow because the mine rescue teams had to explore ahead before ventilation could be re-established. The mine rescue teams explored the 3 and 4 south panels, the face of the 27 and 28 west entries, and the 3 and 4 north panels. The 3 and 4 north panels were known to have a production unit and crew of men working in them that night.

Two bodies were recovered close to the mouth of the 3 and 4 south. 15 bodies were recovered in the 3 and 4 north panels, and three bodies were recovered along the haulage road between the new main north and the 3 and 4 north panels. Further rescue operations were slightly delayed at this time so that the fresh air men could further reinforce the temporary stoppings, that had been built from the 25 west new main north up to the 27 and 28 new main north and to the 3 and 4 north 28 west new main north, so that men in the 3 and 4 north could be removed.

Rescue operations were then continued in the 27 and 28 east new main north to the 3 and 4 south panels.

The mine rescue teams explored the 3 and 4 south panels 27 east new main north and discovered 24 bodies. The violence in these panels had been very great. After the recovery of the bodies in the 3 and 4 south panels, the recovery work proceeded along the 27 and 28 east new main north. It was then discovered that the stoppings separating the 27 and 28 east new main north air split and the main north air split had been destroyed. Recovery work was continued along 27 and 28 east new main north to the 7 and 8 south main north. Twenty-one bodies were discovered in this set of panels. Rescue work then proceeded until the 3 and 4 north panels off of the main north were reached. Mine rescue teams explored these panels and discovered 20 bodies. Nine bodies were recovered on the 27 west haulage off the main north by rescue workers. Two bodies were found near the mouth of the 5 and 6 south panels 27 west main north.

All of the bodies found in the 3 and 4 south new main north, 7 and 8 south main north were removed via the new main north. To have immediately recovered the bodies of the haulage men and the men in the 3 and 4 north panels via of new main north would have caused a considerable delay in recovery work, due to having to transport the bodies by fresh air men too long a distance. It was, therefore, decided that further recovery would be by way of the main north. Mr. Johnson, assistant director; Mr. Charles Pulliam, underground superintendent; Mr. Clem Devidias, Federal mine inspector; and Mr. James Wilson, State mine inspector, walked from the 7 and 8 south 27 west north main north by way of the main north to the portal shaft bottom, taking tests for carbon monoxide and methane as they progressed. They reported that the main north haulage road was in good condition from the 25 west main north to the portal shaft bottom.

When the recovery work up to the 3 and 4 north 28 west main north was complete and all the bodies had been carried through the new main north, I contacted the night mine manager, Mr. McDaniel, who was with the rescue crews in the 3 and 4 north 27 west main north, and told him to get someone to accompany him and to start from that point and travel toward the portal shaft bottom by way of the main north, and that Mr. James Sneddon, State mine inspector; Mr. John Towers, State mine inspector; Mr. Clem Devidias, Federal mine inspector, and I would start from the portal shaft bottom and travel the main north haulage road until the parties met.

Mr. James O'Connor, Federal mine inspector, accompanied Mr. McDaniels, and the parties met at the 25 west main north. From Mr. McDaniels' report and our own observations, we decided it would be safe to recover the rest of the bodies in the mine via the main north with the least amount of delay. Recovery work from the portal shaft was started immediately and the recovery of all the bodies from the 27 and 28 west main north was accomplished. Recovery work was then started on the 25 and 26 west main north where nine bodies and one live man in the 1 and 2 north panel off the 26 west main north were found. Two bodies were found near the 13 and 14 on the 25 west main north haulage road. The rescue men immediately brought the live man to fresh air and administered oxygen, and brought him on top where doctors were waiting. He was taken immediately to the hospital in West Frankfort.

Early Monday morning the recovery work was completed, except for the recovery of the assistant night mine manager. This body was not recovered until about 1:30 p. m. Wednesday, December 26, when he was discovered near the 3 and 4 north 27 and 28 east new main north by the official party investigating the explosion.

General Information Concerning the Explosion Affected Area

Atmospheric Conditions: The barometric pressure at midnight of December 20 was 29.15 inches of mercury. The barometer rose to 29.65 by 10:30 in the morning of December 21, leveled at 29.63 at 2:00 in the afternoon, and afterwards continuously rose to 29.82 inches at the time of the explosion. There was a further rise in the barometer to 29.84 inches by midnight of December 21. Since the barometer was continuously rising, there was an increase in atmospheric pressure for the preceding 24 hours. Therefore, any possibility of atmospheric conditions contributing to the explosion can be eliminated. The continuous rise of the barometer would mean that pressure was being exerted against methane being released in the old workings. The pressure would tend to hold the gas in place, rather than permit it to be released.

Ventilating Fan: The ventilating fan ventilating this section of the mine was of the aero-dynamic type. The fan was delivering 325,000 cubic feet of air per minute at a water gauge pressure of 6.75 inches. At the time of the explosion the recording pen rose to the limit of the pen, returned to 7.41 inches three minutes later. The pressure then dropped to 5.70 inches, followed by a rise to 7.15 inches, and afterwards settled gradually to 6.45 inches 10 minutes later.

The ventilating fan delivered air to the explosion area through two main splits by the use of an overcast at the junction of the 21 west north and main north. The 21 west north split travelled westward to the junction at the new main north at which point an airlock was located. The air then travelled northward along two entries in the new main north with a split for the 23 and 24 west north west, a split for the 25 and 26 west north west, a split for the 27 and 28 west north west, and a split for the 27 and 28 east north west. The return from all these splits was through the 25 and 26 east north west, and 25 and 26 west north into the old main north.

The second main split of air from the junction of the 21 west north and main north travelled north in two entries on the main north with a split for the 25 and 26 east north and a split to ventilate the explosion area in the 27 and 28 west north. The return was through the main north haulage.

Information Concerning Rock Dusting: The mine is classified as gassy and generates approximately 1,500,000 cubic feet of methane in a 24-hour operating day. The mine is dry and dusty and the Federal Bureau of Mines analytical data shows a volatile ratio of 0.39 for Illinois No. 6 seam of coal. It has been shown by experiment that coal dust with a volatile ratio equal to 0.12 is explosive. It is therefore obvious that dust made in this mine is capable of propagating a flame and causing an explosion.

The Illinois Department of Mines and Minerals required rock dusting throughout the mine. The practice of the company was to rock dust every night. In the 3 and 4 south 27 and 28 west north the area had been rock-dusted the night preceding the explosion. During the year 1951, 727 tons of rock dust had been applied in the mine. It is admitted that analyses of rock dust gathered in the explosion area subsequent to the time of the explosion are not representative of rock dust conditions or of the incombustible content of the dust preceding the explosion. The incombustible content of dust, before the explosion, would be expected to be higher because of the loss of moisture and carbon-dioxide from the heat generated by the explosion. The statements of those personally familiar with the mine are to the effect that the mine was well rock-dusted; that the roofs, ribs and floor were white with rock dust; and even after the explosion rock dust was found on the roof and ribs in many of the explosion areas.

Because a flame was propagated by the combustion of coal dust along the 27 and 28 cross entries, it becomes apparent that an inspector cannot make a decision concerning adequate or inadequate rock dusting practices by visual examination alone, and reliable data can only be furnished by laboratory analyses of the dust.

Methods of Breaking Down Coal: Permissible explosives were used in certain other sections of the mine, but the section affected by the explosion uses compressed air, commonly known as Airdox, exclusively for breaking down coal. The possibility of explosives contributing to the explosion is therefore ruled out.

Data and Details Concerning the 3 and 4 South Panels Off 27 and 28 East North West Affected by the Explosion

Ventilation in the 3 and 4 south panels 27 east north west travelled inby on the 4 south; swept the area near falls in the abandoned panels; moved across the working faces of all rooms and the No. 2 and No. 3 west stubs; moved outby on the No. 1 west stub, and returned via 3 south panel air entry to the 27 east north west cross entry haulage.

Post Drills in No. 2 Room, No. 3 West Stub:

(a) The drills were in working position. The left drill was in the face and could have been in operation. The right drill was not in operation because the bits were being changed and the drill hole had been completed.

(b) There is little possibility of an ignition of gas in No. 2 room since the flame markings were inby the room and no flame was detected near the face. Coking had extended inby half way from the mouth to the face.

No. 5 B.U. Loading Machine Across Entrance to No. 3 Room, No. 3 West Stub:

(a) The loading machine was inoperative because the cable was coiled near the machine and was not connected to the trolley power. This machine was a spare and was used only when the more modern loading machine was shut down for repairs.

No. 11 B.U. Loading Machine in No. 8 Room, No. 3 West Stub:

(a) The boom and loading head were loaded. The boom contained large pieces of coal showing coke particles which were caused by the flame that swept the mouth of the room.

(b) The machine was not maneuvering because of its position at the face.

(c) All explosion forces were westward on No. 3 west stub and were diminishing in intensity from the panel westward toward the face.

(d) Coke was found at the mouth of the room only and not inby the room.

(e) There is a possibility that the electric motor on the loading machine had been left running, but the normal practice is to shut down the electric motor under the conditions existing, since there was no buggy at the boom on which coal could be loaded.

Cutting Machine at the Face of No. 2 West Stub:

(a) The cutter bar was sumped in the face and the cutting machine was probably operating at the time of the explosion.

(b) Rock dust was plainly visible inby the last crosscut and rock dust was still to be found on the ribs and roof. This indicates that no great violence had been produced at the face of this stub.

(c) There was no coke or other indication of flame or heat near the working face.

(d) The men operating the cutting machine had moved into the No. 1 west stub after the explosion. Apparently the men had been by-passed by the explosion, since the forces turned outby before reaching the face.

(e) This cutting machine is eliminated as a source of ignition.

Joy Portable Drill at the Face of No. 1 West Stub:

(a) The drills were in the face and could have been in operation at the time of the explosion.

(b) The drills had automatic shut-off switches, but one switch was believed to be defective. Therefore, no evidence can be gained from the switches.

(c) Rock dust was plainly visible on the roof and ribs, including the last crosscut.

(d) The men working at the drill were apparently by-passed by the explosion the same as the men in No. 2 west stub and were able to retreat outby the last open crosscut.

(e) The portable drill can be eliminated as a source of ignition.

Cable Reel Motor Coupled to Two Cars at No. 6 Crosscut Inby 27 East, 4 South:

(a) No motorman or other workmen were at the motor. If they had been they would have been instantly killed by the violence of the explosion. A crew of three men for this motor was found on the 27 east north west entry.

(b) The motor was not in operation since there was no operator at the machine.

(c) The motor and two cars were to be used by a crew of three men who had been sent to this location to remove steel.

(d) This motor can be eliminated as a source of ignition.

Eight Ton Cable Reel Motor with Eight Loaded Cars at the Loading Head:

(a) It is believed that the motor was not in operation because it was waiting for clearance of the motor and empty cars coming inby the 45.

(b) There were two loaded buggies at the loading head waiting for empty cars in which to unload their loads of coal and the buggies were not operating.

(c) Although it is believed the motor was not in operation, there is yet a possibility that the motor was in motion and that it could have caused an ignition of gas.

Buggies at the Loading Head:

(a) Both buggies were fully loaded and were standing idle while waiting for empty cars to be placed at the loading head.

(b) Normal practice is for one buggy to unload into the front buggy, which in turn unloads on to the conveyor at the loading head.

(c) The motors on the buggies were probably not operating, and there is little possibility of the buggies being a source of ignition.

Loading Head:

(a) All eight cars coupled to the motor at the loading head had been loaded and there is no reason for the loading conveyor to have been in operation.

(b) Since the conveyor was apparently not in operation, it can be assumed the conveyor was not a source of ignition.

Motor in 3 South 45:

(a) The motor was pushing eight empty cars inby on the 45 to the 4 south.

(b) There are good reasons to believe that the motor was in operation at the time of the explosion and that the trap door, located at the 45 between the third and fourth air courses, was open and that the ventilation was short-circuited.

(c) There is a probability that the motor had been derailed and had caused a prolonged short in the ventilation by keeping the trap door open. The open trap door would permit gas to accumulate near the caved areas. Such an accumulation of gas would very probably move outby the caved areas toward the working faces and along the panel entries.

(d) Because the origin of initial gas ignition had been rather definitely established inby the No. 3 stub on the third air course, or near the No. 3 west stub, there is practically no possibility that this motor contributed to the ignition of gas.

Location of Bodies:

(a) All men found in No. 1, 2, and 3 west stubs had apparently been at work at the time of the explosion and had moved from their working places to the positions where they were found. Apparently the explosion by-passed these men and their death was due to carbon monoxide poisoning and burning rather than by violence.

(b) All bodies found in the 3 and 4 south and air course panel entries were apparently at their working places and were instantly killed by the explosion, either by violence or by the fire.

(c) Three of the five bodies found on the 27 east north west at the mouth of the 45 going into 3 and 4 south, 27 east north west had been sent to pull steel on the 3 and 4 south entry where their motor and two cars were found. These men were apparently killed by the violence of the explosion which spread into the 27 and 28 east north west. It is not known why these men were at this location and not at their working places. It is not known what the additional two men were doing on the cross entry.

Explosive Forces in 3 and 4 South 27 and 28 East North West:

In general, it may be said that certain forces which are believed to have been caused by the burning of methane gas, originated at and radiated away from the second 45 crosscut inby the No. 3 west stub. The explosive forces (very violent) spread into the No. 3 west stub in a westward direction. On the No. 3 west stub some gas flame markings were found inby No. 1 and No. 2 rooms, the roof was heavily coked to No. 9 room, and the most severe heat was found near the mouth of No. 5 room. The power cable on the No. 3 west stub had become so hot, from the flame and the hot gases, that the pitch had dripped out of the insulation and the pitch had subsequently burned (although cables in the 7 and 8 south 27 west north and in the 3 and 4 north 28 west north west had dripped, the insulating material had not subsequently burned). The heat in the 3 and 4 south 27 east north west was greatest of all the areas where indications of burning were found.

Explosive forces were also found inby on No. 2 west stub and outby on No. 1 west stub.

At the mouth of No. 3 west stub the wooden plates used in connection with roof bolting had approximately one-half inch of coke deposited on the westward, or low pressure, side from which the flame was being propagated (from east to west).

The explosion forces outby No. 1 west stub in the 3 and 4 south panel entries are so confused, because of subsequent spreading of divergent forces along the 27 and 28 east north west cross entries, no analysis can be made of the forces. There was, however, more than one movement of northward and southward forces which resulted from additional combustion of coal dust along the 3 and 4 south panel entries.

The initial forces originating in the 3 and 4 south panel entries entered the 27 and 28 east north west cross entries, and spread eastward and westward along the cross entries by the propagation of a flame, which was caused by additional burning of coal dust along the cross entries.

Propagation of Explosion Along the 27 and 28 East North West and West North

It has been rather definitely established that the explosion was ignited by an accumulation of methane gas near the junction of the No. 3 stub and 3 south panel entry in the 3 and 4 south panel off the 27 east north west. The ignition was caused by (1) an electric arc from the operation of a motor, or (2) because of personnel smoking near the caved areas in the abandoned panels.

The burning of the methane gas created a volume of hot gases of sufficient velocity to pick up and put into suspension small particles of coal dust from the working areas in the 3 and 4 south panels. The coal dust was ignited and the flame propagated itself into the 27 east north west cross entries. The combustion of coal dust spread eastward and westward from the mouth of the 3 and 4 panel along the 27 and 28 cross entries and the flame was propagated by the additional burning of coal dust, which was thrown into suspension by the velocity of the burning and expanding hot gases. It becomes apparent from the propagation of the flame, and subsequent laboratory analyses of dust samples taken from the 27 and 28 cross entries, that the amount of rock dust applied was insufficient to bring the incombustible content of the dust mixture above the minimum concentration required by law (65%), and which would be sufficient to prevent additional combustion. It also becomes apparent that visual examination of rock-dusted areas cannot be relief upon to effectively determine the amount of incombustible material in dusts found in coal mines, and especially dust on the floor. In other words, it is possible for coal dust to become of such thickness on the floor that an application of rock dust will not bring the incombustible content above the minimum at which combustion is possible. This is, in effect, a laminated type of dust mixture with alternate layers of coal dust of too great thickness and layers of rock dust of insufficient thickness.

Propagation of Flame and Forces Westward from the 3 and 4 South Panel: The flame moving westward along 27 and 28 east north west was propagated by the combustion of coal dust from the roof, ribs and floor of the cross entries. The flame passed the 1 and 2 south and 1 and 2 north (abandoned panels) without apparent damage. At the intersection of the 27 and 28 cross entries with the new main north an overcast was blown westward in the entries. At the intersection the flame and forces moved south in the new main north entry and west along the 27 and 28 west north west. The flame partially entered the 1 and 2 north panels without apparent damage and proceeded to the 3 and 4 north panels where it swept the right rib and entered up to the fourth crosscut near the left rib. Because the 3 and 4 north panels were active working places additional fresh (not rock-dusted) coal dust from the face areas was thrown into suspension and a second active combustion took place. This combustion deposited coke on the roof outby the fourth crosscut in 3 and 4 north. The initial flame, plus the secondary flame coming out of the 3 and 4 north panels, compressed the air and suspended coal dust particles at the face of the 27 and 28 west north west entries, where a third active combustion of coal dust particles took place. The forces resulting from this combustion were relieved by moving through crosscuts to the southeast and thence in an eastward direction along the 27 entries past the 3 and 4 south panels. Flame and violence entered part way into the 3 and 4 south panels where two men were killed at the mouth of the panel, but without apparent burning of methane gas in the panels. The forces continued eastward past the 1 and 2 south panels without apparent damage, and continued east along the 27 and 28 east north west cross entry, as well as south on the new main north. Thus, two forces moving in opposite directions had moved along 27 and 28 east and west north west.

It now becomes apparent there had been at least two and possibly three pressure waves moving across and into the new main north. The pressure waves were not necessarily of equal intensity.

The flame and force spread southward along the new main north, partially entering the 25 and 26 east and west north west.

Propagation of Flame and Forces Eastward from the 3 and 4 South Panels Off the 27 East North West: The flame and forces produced by the initial combustion of gas and secondary combustion of coal dust spread eastward past the main north McKinlay entries, and the forces entered the main north McKinlay entries to the face, but it is difficult to determine to what extent the flame entered. All the power connections in the McKinlay entries had been pulled the preceding night and no active work was taking place, nor were there any men in the area. The McKinlay entry drivers were both away from the face a distance of four to eight feet. There was no evidence that the main north McKinlay entries contributed to the explosion.

The forces moving eastward entered the 7 and 8 south panel predominantly on the 8 south and 8 south air course entries, and compressed against the working faces. Because the working places are buggy runs and were being actively worked by drilling, cutting, and loading, an additional supply of fresh coal dust was available. The net effect of the compression at the face was to effectively increase the dust content in the air and another violent combustion of coal dust, without any evidence of burning of methane gas, took place. As the flame entered the 7 and 8 south panels some oxygen was burned which decreased the total amount of oxygen available for combustion of the additional coal dust thrown into suspension. Active combustion, with deposition of coke on the roof, extended outby from near the face on the 7 south and 7 south air course to the 1 east stub. From the 1 east stub outby the roof had heavy deposits of soot, which may be explained by the fact that there was not a sufficient amount of oxygen available for complete combustion. The heat resulting from the combustion of coal dust, inby, caused the distillation of the volatile matter from the small coal dust particles and thus made available a source of gas which could not burn, because of a deficiency of oxygen. The rather rapid removal of heat from the volatile gases, by the comparatively cool roof, caused a deposition of carbon, in the form of soot, on the roof outby from the No. 1 east stub to the cross entry. Twenty-one men lost their lives in the 7 and 8 south panels due to a combination of violence and gas poisoning.

The initial pressure wave had moved eastward along the cross entries and was followed by the second pressure wave created by combustion in the 7 and 8 south panels. Some pressure and violence entered the 5 and 6 south panels causing the death of two men near the No. 1 stub. There was no evidence of burning in either the 3 and 4 or 5 and 6 south panels.

The pressure waves moving eastward entered the 3 and 4 north panels and caused some disturbance of conveyor belts in the panel entries and stubs. Twenty men lost their lives in the 3 and 4 north panels due to gas poisoning because they were able to move from their working places into the panel entries, and apparently had been in this latter location for some time before death resulted. There was no evidence of flame or additional combustion of coal dust in the 3 and 4 north panels. From this point the flame was propagated only a short distance on the old main north but the violence extended beyond the 25 and 26 west north.

The 25 and 26 East North West and the 25 and 26 West North: There was little evidence, if any, that flame entered these cross entries from either the new main north or the old main north entries. Pressure waves did enter from the new main north and travelled inby eastward for a short distance. Eleven men lost their lives along the cross entries. Two deaths may have been caused by violence near the 13 and 14 panels, but the other nine undoubtedly died from gas poisoning at the 1 and 2 north panels off the 26 west north. One man was recovered alive at the 1 and 2 north off the 25 west north near where the nine men had died.

Origin and Cause of Ignition in 3 and 4 South Panel 27 and 28 East North West Entry

1. It is believed the ignition of methane gas was *not* caused by any of the following:
   - (A) The loading machine across the mouth of No. 3 room in No. 3 stub: This machine did not have its cable attached to the power and definitely was not in operation.
   - (B) The loading machine in No. 8 room, No. 3 stub: This machine was idle and had a loaded boom, no buggy car was at the boom, and there was no indication of fire or burning inby the mouth of No. 8 room.
   - (C) The cutting machine at the face of No. 2 stub and the drill at the face of No. 1 stub: There was no evidence of fire or violence at these points. Rock dust was still in place on the ribs and roof at the last open crosscuts in the stubs and the men had left their working places, to retreat outby, after the explosion.
   - (D) The drill at the face of No. 2 room, No. 3 stub: All the explosion forces (which were very violent) and coking were inby from the 3 south panel entry along No. 3 stub entry. Coking in No. 2 room was inby from the mouth to approximately one-half the distance to the face. There was no evidence of a gas flame near the face or outby in the room. The men operating the drill retreated from the face into No. 3 stub entry after the explosion which indicates they were by-passed by the explosion.
   - (E) Cable reel motor on 4 south panel entries at sixth 45 crosscut: This motor was apparently not in operation since its crew was found on the 27 east north west cross entry.
   - (F) Motor on 3 south 45:
     - (a) Assuming the trap door was open because of the position of the motor and empty cars, the motor was still in the air course and in fresh air and full ventilation.

    - (b) All forces resulting from the explosion are against the possibility of a gas ignition by the motor at this place.
  - (G) The two buggies and the conveyor at the loading head: Because the buggies were fully loaded, and because the cars coupled to the motor at the loading head were fully loaded, it is reasonable to conclude that these two pieces of equipment were not in operation at the time of the explosion and therefore did not cause an ignition of gas.

2. It is believed the following are the most likely sources for an ignition of methane gas which initiated the explosion:
   - (A) Motor coupled to the eight loaded cars at the loading head: One may easily assume that the motor was in operation due to the fact that its cars were fully loaded and the motorman would normally pull his loads to the 45 while waiting for the other motor with empty cars to clear the track. It is therefore possible that an electric arc resulted from placing power on the motor. If a body of gas had moved outby the caved area of the abandoned works to the location of the motor, it would have been possible to ignite the gas-air mixture by the arc.
   - (B) Personnel smoking near the second crosscut inby the No. 3 stub and near the caved area: Two timbermen had been sent to this location to erect props to hold the roof against further caving. The bodies of these two men were found at the location in which they were working.
     - (a) Two whole cigarettes and several parts of a number of cigarettes, apparently torn into pieces by the explosion, were also found on the floor near the bodies.
     - (b) The top of a cigarette package containing one cigarette was burned by the flame.
     - (c) Markings of a burning gas flame were observed on the roof. The flame markings radiated south east and north east through the crosscuts, and north in the entry from the location where the bodies were found.
     - (d) A stopping, on the third 45 crosscut inby the No. 3 west stub had previously been partially knocked out for ventilation purposes. The remaining portions of the stopping were blown southeastward through the crosscut.
     - (e) A stopping on the second 45 crosscut inby the No. 3 west stub was blown northeast in the crosscut.

Conclusions

1. The explosion was caused by an ignition of methane gas. The exact cause or causes of ignition are unknown but the best evidence

indicates the ignition was by: (1) an electric spark from a moving electric locomotive, or (2) a flame or spark resulting from the smoking of personnel.

2. The origin of the explosion was in the 3 and 4 south 27 east north west panel entry near where abandoned works had caved.

3. The initial combustion of methane gas was supported and propagated by the combustion of coal dust.

4. Although the area affected by the explosion appeared to be adequately rock-dusted, by visual examination, it now becomes apparent that visual examination alone is not adequate in determining the combustible properties of dusts found in coal mines.

5. It is believed the body of methane gas, which was ignited and caused the initial stage of the explosion, was liberated in the abandoned ends of the 3 and 4 south panel workings, and moved outward from the abandoned workings to the area where it was ignited.

6. It is also believed the cause of the outward movement of the methane gas from the old workings was due to: (1) Roof falls within the abandoned workings of the 3 and 4 south panel created a pressure which drove the methane gas outward, or (2) a short circuiting of the ventilation system caused by an electric locomotive and eight empty cars, which were moving through and holding open a trap door between the intake and return airways, in the 3 and 4 south panels, at the time the initial explosion occurred.

Recommendations

1. Dust samples should be taken by the State mine inspectors in all areas during their mine inspections and sent to the departmental laboratory for analyses. In all questionable areas, where rock dusting appears inadequate, the inspector should insist that the area be rock-dusted immediately.
2. All areas of coal mines must be kept clean of accumulations of loose coal and coal dust.
3. The ventilation system be designed so that the air reaches working faces without interruption.
4. Where possible the use of doors in the ventilating system should be eliminated. Where it is not possible to eliminate doors they should be used in pairs to form air locks.
5. In all gassy mines tests, with a flame safety lamp, for the presence of methane gas should be made:
    - (a) Before electrical equipment is taken inby the last open crosscut.
    - (b) Before electrical equipment is operated at or near a working face.
    - (c) After coal in each working place has been cut, drilled, or broken down.

6. From the extensive evidence found by the State and Federal mine inspectors during the rescue and recovery work and the official investigation, it becomes evident that there are flagrant violations of the State Mining Laws with respect to smoking in gassy mines. It is also apparent that the Department of Mines and Minerals is not receiving the proper cooperation in the enforcement of no smoking laws by either management or employees. Henceforth, the Department of Mines and Minerals insists that the no smoking laws be strictly adhered to by all personnel concerned.
7. Until a further study of the method of mining panel entries, to devise a safer method of mining, can be made, the following recommendation is made: When any area is being worked for the production of coal and the area is working (squeezing and moving) all men in the panel area should be removed until such time as the squeeze has settled and there are no longer dangerous quantities of gas in the panel and it has been determined and reported safe by the mine examiners. The working shifts may then return to the panel, provided a certified mine examiner is assigned to make continuous examinations of the affected area during the working shifts.

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Mr. Arlie Cook, West Frankfort, Illinois.
Mr. George Chismar, Orient, Illinois.
Mr. Lloyd Saylor, West Frankfort, Illinois.
Mr. Wilford McDaniel, West Frankfort, Illinois.

I also wish to acknowledge the assistance and cooperation of the following mine inspectors of the Illinois Department of Mines and Minerals and the United States Bureau of Mines, whose tireless work greatly facilitated the rescue and recovery work:

Mr. John Towers, Canton, Illinois.
Mr. Charles Blakeney, Danville, Illinois.
Mr. George Hall, Springfield, Illinois.
Mr. Sydney Smith, Sandoval, Illinois.
Mr. Sidney G. Keene, DuQuoin, Illinois.
Mr. Mike Sciranko, Benton, Illinois.
Mr. John Taylor, Eldorado, Illinois.
Mr. James Sheridan, Vincennes, Indiana.
Mr. Leon W. Kelly, Vincennes, Indiana.
Mr. Frank Perz, Terre Haute, Indiana.

Mr. Loren A. Belt, Madisonville, Kentucky.
Mr. Clifton H. DuPree, Madisonville, Kentucky.
Mr. T. Alvin Scully, Belleville, Illinois.
Mr. Roy E. Seiger, Belleville, Illinois.
Mr. W. W. Kessler, Staunton, Illinois.
Mr. George W. Hammons, Staunton, Illinois.

I am very grateful to the following superintendents and their mine rescue teams:

Mr. Edward S. Wright, Belleville, Illinois.
Mr. Cerillo S. Tarter, Benld, Illinois.
Mr. Wathen Browning, Benton, Illinois.
Mr. William McCollum, DuQuoin, Illinois.
Mr. James M. Hooper, Eldorado, Illinois.
Mr. Harry Carney, Herrin, Illinois.
Mr. William J. Williams, Springfield, Illinois.

I want to commend the above for their splendid and courageous rescue and recovery work following the explosion.

I also am greatly indebted to the Union Colliery Coal Company mine rescue team, whose superintendent was Nathaniel Kirk, for their assistance in the rescue and recovery work.

The efforts of the American Red Cross, the Junior Chamber of Commerce of West Frankfort, Illinois, the Boy Scouts of America, and especially the Salvation Army, are greatly appreciated for their aid and assistance, particularly to the rescue teams, inspectors, and all others taking part in rescue work.

The courageous assistance given by the many volunteers who entered the mine and helped with the recovery work is also much appreciated.

The list following gives the name, age, occupation, and conjugal relation of each fatality.

FATAL ACCIDENTS

Date of injury	Date of death	Name	Age	Occupation	Residence	Name of operator of mine	Number or letter of mine	Married	Single	Widow	Children	Dependents	Cause of death
Dec. 21	Dec. 21	Arthur Adams	43	Repairman	Benton	Chicago, Wilmington & Franklin Coal Co.	Orient No. 2	x	--	x	3	4	Explosion
"	"	Bill Akins	30	Repairman	Benton	" " " "	"	x	--	x	1	2	" "
"	"	R. E. Ashmore	61	Driller	Carterville	" " " "	"	x	--	x	--	1	" "
"	"	Fay Austin	52	Timberman	Benton	" " " "	"	x	--	x	--	1	" "
"	"	Oscar Bartley	30	Loading machine helper	Johnston City	" " " "	"	x	--	x	1	2	" "
"	"	Charles A. Bartoni	38	Airdox shooter	West Frankfort	" " " "	"	x	--	x	3	4	" "
"	"	Wilburn L. Bell	31	Motorman	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	Lawrence Bell	32	Triprider	Benton	" " " "	"	x	--	x	2	3	" "
"	"	William W. Bell	38	Motorman	Benton	" " " "	"	x	--	x	3	4	" "
"	"	Roy Beaty	33	Loading machine helper	Benton	" " " "	"	x	--	x	2	3	" "
"	"	John F. Bennett	35	Foreman	Thompsonville	" " " "	"	x	--	x	3	4	" "
"	"	James L. Black	57	Foreman	Carterville	" " " "	"	x	--	x	--	1	" "
"	"	Charles E. Boyd	53	Driller	Marion	" " " "	"	x	--	x	--	1	" "
"	"	Carroll Bridges	41	Bratticeman	Benton	" " " "	"	x	--	x	2	3	" "
"	"	Estel Bradley	44	Motorman	Logan	" " " "	"	x	--	x	5	6	" "
"	"	Oral Bradley	26	Motorman	Logan	" " " "	"	x	--	x	2	3	" "
"	"	Aston L. Bufford	40	Driller	Benton	" " " "	"	x	--	x	5	6	" "
"	"	L. J. Cairel	37	Machine operator	Logan	" " " "	"	x	--	x	2	3	" "
"	"	James O. Cantrell	44	Foreman	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	Thomas Clark	45	Foreman	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	Paul Coats	33	Bratticeman	Herrin	" " " "	"	x	--	x	1	2	" "
"	"	Jesse Connor	39	Airdox shooter	Zeigler	" " " "	"	x	--	x	2	3	" "
"	"	Andrew Cunningham	26	Laborer	West Frankfort	" " " "	"	x	--	x	2	3	" "
"	"	John Dobruff	62	Tracklayer	West Frankfort	" " " "	"	x	--	x	--	1	" "
"	"	Virgil Dollins	46	Airdox shooter	Benton	" " " "	"	x	--	x	2	3	" "
"	"	George Dunlop	39	Motorman	West Frankfort	" " " "	"	x	--	x	2	3	" "
"	"	Clyde Dupree	51	Cutting machine operator	Pittsburg	" " " "	"	x	--	x	--	1	" "
"	"	Clarence Eubanks	44	Driller	Sesser	" " " "	"	x	--	x	1	2	" "
"	"	Frank Evrard	33	Motorman	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	J. W. Fairbanks	43	Triprider	Johnston City	" " " "	"	x	--	x	4	5	" "
"	"	John Farkas	59	Timberman	Johnston City	" " " "	"	x	--	x	--	1	" "
"	"	Archie Ferbus	51	Driller	Johnston City	" " " "	"	x	--	x	1	2	" "
"	"	Joseph L. Fitzpatrick	29	Motorman	Benton	" " " "	"	x	--	x	1	2	" "
"	"	James Fowler	37	Motorman	West Frankfort	" " " "	"	x	--	x	3	4	" "
"	"	Harry Gunter	38	Motorman	Benton	" " " "	"	x	--	x	3	4	" "

"	"	Herschel Harris	64	Safety-first	West Frankfort	"	"	"	"	"	x	--	x	--	1	"	"
"	"	H. O. Harper	54	Timberman	West Frankfort	"	"	"	"	"	--	x	--	--	1	"	"
"	"	J. E. Haynes	57	Clean-up	Johnston City	"	"	"	"	"	x	--	x	--	1	"	"
"	"	Robert E. Hines	33	Triprider	Benton	"	"	"	"	"	x	--	x	3	4	"	"
"	"	Roy Hutchins	41	Motorman	Benton	"	"	"	"	"	--	x	--	--	1	"	"
"	"	Audrey Huffstutler	21	Driller	Benton	"	"	"	"	"	x	--	x	1	2	"	"
"	"	Rolla Jones	48	Airdox shooter	Benton	"	"	"	"	"	x	--	x	4	5	"	"
"	"	Guy Johnson	42	Triprider	Macedonia	"	"	"	"	"	x	--	x	3	4	"	"
"	"	Roscoe Karnes	55	Motorman	Benton	"	"	"	"	"	x	--	x	4	5	"	"
"	Dec. 23	Ralph Kent	47	Bratticeman	Marion	"	"	"	"	"	x	--	x	--	1	"	"
"	Dec. 21	John Kucewski	37	Loading machine operator	Benton	"	"	"	"	"	x	--	x	2	3	"	"
"	"	Otis Lewis	28	Triprider	Benton	"	"	"	"	"	x	--	x	1	2	"	"
"	"	Lafet Lipsey	32	Motorman	Benton	"	"	"	"	"	x	--	x	2	3	"	"
"	"	Mynett Lockhart	49	Loading machine operator	West Frankfort	"	"	"	"	"	x	--	x	--	1	"	"
"	"	John Matelic	40	Motorman	West Frankfort	"	"	"	"	"	x	--	x	1	2	"	"
"	"	Wallace Miller	29	Repairman	Benton	"	"	"	"	"	x	--	x	2	3	"	"
"	"	Claude Milligan	40	Airdox	West Frankfort	"	"	"	"	"	x	--	x	4	5	"	"
"	"	Warren Mitchell	24	Triprider	Benton	"	"	"	"	"	x	--	x	1	2	"	"
"	"	Sam Montgomery	41	Timberman	Sesser	"	"	"	"	"	x	--	x	2	3	"	"
"	"	Harry Morthland	52	Loading machine helper	West Frankfort	"	"	"	"	"	--	x	--	--	--	"	"
"	"	Clyde Moses	39	Airdox shooter	Marion	"	"	"	"	"	x	--	x	3	4	"	"
"	"	Edward Mundy	40	Cutting machine operator	West Frankfort	"	"	"	"	'	x	--	x	--	1	"	"
"	"	Bill McDaniel	19	Motorman	West Frankfort	"	"	"	"	"	--	x	--	--	--	"	"
"	"	Roy L. Neibel	50	Loading machine helper	West Frankfort	"	"	"	"	"	x	--	x	3	4	"	"
"	"	R. L. Newell	47	Cutting machine operator	West Frankfort	"	"	"	"	"	x	--	x	--	1	"	"
"	"	Max Nolen	34	Motorman	West Frankfort	"	"	"	"	"	x	--	x	2	3	"	"
"	"	George Novak	40	Driller	Benton	"	"	"	"	"	x	--	x	3	4	"	"
"	"	Marion Odle	44	Foreman	West Frankfort	"	"	"	"	"	x	--	x	--	1	"	"
"	"	Earl Overturf	40	Timberman	Benton	"	"	"	"	"	x	--	x	--	1	"	"
"	"	John M. Palic	48	Trapper	West Frankfort	"	"	"	"	"	x	--	x	3	4	"	"
"	"	Shelby Pasley	40	Triprider	West Frankfort	"	"	"	"	"	x	--	x	3	4	"	"
"	"	Earl Payne	42	Airdox shooter	Buckner	"	"	"	"	"	x	--	x	--	1	"	"
"	"	Pete Petroff	56	Driller	Johnston City	"	"	"	"	"	x	--	x	1	2	"	"
"	"	Andy Peska	61	Timberman	Benton	"	"	"	"	"	--	x	--	--	--	"	"
"	"	Thomas J. Pierson	48	Cutting machine operator	Benton	"	"	"	"	"	x	--	x	4	5	"	"
"	"	George L. Pollock	25	Triprider	West Frankfort	"	"	"	"	"	x	--	x	1	2	"	"
"	"	Vallie Prichett	39	Airdox shooter	Benton	"	"	"	"	"	x	--	x	4	5	"	"
"	"	John Quayle	25	Triprider	West Frankfort	"	"	"	"	"	--	x	--	--	--	"	"
"	"	Joseph Quayle	25	Triprider	West Frankfort	"	"	"	"	"	x	--	x	1	2	"	"
"	"	Ellis Reach, Sr.	57	Cutting machine operator	West Frankfort	"	"	"	"	"	x	--	x	--	1	"	"
"	"	Ellis Reach, Jr.	32	Foreman	West Frankfort	"	"	"	"	"	x	--	x	5	6	"	"

FATAL ACCIDENTS—Concluded

Date of injury	Date of death	Name	Age	Occupation	Residence	Name of operator of mine	Number or letter of mine	Married	Single	Widow	Children	Dependents	Cause of death
Dec. 21	Dec. 21	Joe Revak	49	Motorman	Benton	Chicago, Wilmington & Franklin Coal Co.	Orient No. 2	x	--	x	--	1	Explosion
"	"	Robert Rice	32	Motorman	Mulkeytown	" " " "	"	x	--	x	8	9	" "
"	"	Tom Roberts	43	Triprider	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	Claude Roland	46	Motorman	Carterville	" " " "	"	x	--	x	2	3	" "
"	"	Thomas Runnels	35	Motorman	Benton	" " " "	"	x	--	x	2	3	" "
"	"	Guy Rice	24	Triprider	Mulkeytown	" " " "	"	x	--	x	2	3	" "
"	"	Charles Rose	32	Motorman	Benton	" " " "	"	x	--	x	--	1	" "
"	"	Earl Rees	38	Repairman	Elkville	" " " "	"	x	--	x	1	2	" "
"	"	Alexander Ramsey	29	Cutting machine operator	West Frankfort	" " " "	"	x	--	x	2	3	" "
"	"	Stanley Sandusky	48	Safety-first man	West Frankfort	" " " "	"	x	--	x	--	1	" "
"	"	Mike Senkus	63	Bratticeman	West Frankfort	" " " "	"	--	x	--	--	--	" "
"	"	Hearstel Summers	24	Tracklayer	Benton	" " " "	"	x	--	x	2	3	" "
"	"	Charles T. Southern	43	Foreman	Benton	" " " "	"	x	--	x	2	3	" "
"	"	Chalon H. Smith	26	Cutting machine operator	Benton	" " " "	"	x	--	x	2	3	" "
"	"	William Sanders	27	Airdox line layer	Benton	" " " "	"	x	--	x	1	2	" "
"	"	Leon Summers	35	Motorman	West Frankfort	" " " "	"	x	--	x	6	7	" "
"	"	Wayne Spencer	25	Airdox line layer	Whittington	" " " "	"	x	--	x	2	3	" "
"	"	Burton Spencer	34	Airdox shooter	Whittington	" " " "	"	--	x	--	--	1	" "
"	"	William R. Smith	33	Tracklayer	West Frankfort	" " " "	"	x	--	x	2	3	" "
"	"	Charles R. Smith	25	Motorman	West Frankfort	" " " "	"	x	--	x	2	3	" "
"	"	Earl H. Smith	53	Laborer	West Frankfort	" " " "	"	--	x	--	--	--	" "
"	"	George R. Smith	44	Loading machine helper	West Frankfort	" " " "	"	x	--	x	3	4	" "
"	"	John Sadoski, Jr.	41	Motorman	West Frankfort	" " " "	"	x	--	x	1	2	" "
"	"	Silas Stewart	60	Cutting machine operator	Benton	" " " "	"	x	--	x	--	1	" "
"	"	Carrol Stubblefield	42	Laborer	Johnston City	" " " "	"	x	--	x	3	4	" "
"	"	Ted Tapley	47	Motorman	West Frankfort	" " " "	"	x	--	x	--	1	" "
"	"	Paul Taylor, Sr.	51	Cutting machine operator	Benton	" " " "	"	--	x	--	--	--	" "
"	"	John D. Thomas	29	Repairman	Benton	" " " "	"	x	--	x	2	3	" "
"	"	Louis Trapper	45	Trapper	Benton	" " " "	"	x	--	x	5	6	" "
"	"	Alberic Vancouvwelert	49	Driller	Johnston City	" " " "	"	x	--	x	--	1	" "
"	"	Howard Wall	39	Tracklayer	West Frankfort	" " " "	"	x	--	x	3	4	" "
"	"	Max Wawrzyniak	57	Driller	West Frankfort	" " " "	"	x	--	x	--	1	" "
"	"	Roy Westray	36	Machine operator	West Frankfort	" " " "	"	x	--	x	3	4	" "
"	"	Charles Whitlow	52	Triprider	Benton	" " " "	"	x	--	x	--	1	" "

,,	,,	B. R. Williams	40	Triprider	West Frankfort	,,	,,	,,	,,	,,	x	--	x	1	2	,,	,,
,,	,,	Carl Williams	36	Laborer	West Frankfort	,,	,,	,,	,,	,,	x	--	x	1	2	,,	,,
,,	,,	James H. Williams	57	Laborer	Thompsonville	,,	,,	,,	,,	,,	x	--	x	--	1	,,	,,
,,	,,	W. E. Wilson	55	Triprider	West Frankfort	,,	,,	,,	,,	,,	x	--	x	--	1	,,	,,
,,	,,	W. L. Woodward	48	Trapper	Johnston City	,,	,,	,,	,,	,,	x	--	x	3	4	,,	,,
,,	,,	Zell Yates	33	Airdox line layer	West Frankfort	,,	,,	,,	,,	,,	x	--	x	4	5	,,	,,
,,	,,	Victor Younkin	41	Motorman	West Frankfort	,,	,,	,,	,,	,,	x	--	x	2	3	,,	,,
,,	,,	Louis Zanzuchi	43	Foreman	West Frankfort	,,	,,	,,	,,	,,	x	--	x	1	2	,,	,,
,,	,,	Joe Zeboski	46	Motorman	West Frankfort	,,	,,	,,	,,	,,	x	--	x	3	4		

—WALTER EADIE, *Director.*

MINE DISASTERS WHERE MORE THAN TWO MEN WERE KILLED

Date	Name of operator	Location	Cause	Number killed
Feb. 16, 1883	Wilmington C. M. & Mfg. Co.	Braidwood	Drowning	69
1883	Coulterville Coal Co.	Coulterville	Gas explosion	10
Oct. 13, 1902	Victor Coal Co.	Pawnee	Blast explosion	3
Feb. 25, 1903	Auburn & Alton Coal Co.	Auburn	Blast explosion	3
Mar. 13, 15, 16, 1903	Cardiff Coal Co.	Cardiff	Gas explosion	9
Mar. 23, 1903	Athens Coal Co.	Athens	Blast explosion	6
Mar. 31, 1903	Sandoval Coal Co.	Sandoval	Blast explosion	8
May 11, 1904	Big Muddy Coal & Iron Co.	Herrin	Powder explosion	10
Dec. 9, 1904	Eldorado Coal Co.	Eldorado	Blow-out shot	4
Jan. 16, 1905	Decatur Coal Co.	Decatur	Suffocation, minefire	6
Apr. 3, 1905	Zeigler Coal Co.	Zeigler	Gas explosion	50
Dec. 22, 1906	Breese-Trenton M. Co.	Breese	Falling cage	6
Jan. 29, 1907	Johnston City & B. M. Coal Co.	Johnston City	Powder explosion	7
Sept. 7, 1907	Dering Coal Co., No. 11	West Frankfort	Gas explosion	4
Oct. 6, 1908	Harrisburg & Southern Coal Co.	Grayson	Powder explosion	3
Nov. 5, 1908	W. P. Rend Coal Co.	Rend	Windy shot and coal dust explosion	4
Nov. 19, 1908	Benton Coal Co.	Benton	Windy shot and coal dust explosion	3
Dec. 12, 1908	W. P. Rend Coal Co.	Rend	Windy shot and coal dust explosion	3
Jan. 10, 1909	Zeigler Coal Co.	Zeigler	Gas explosion	26
Feb. 9, 1909	Zeigler Coal Co.	Zeigler	Gas explosion	3
Feb. 16, 1909	Dering Coal Co., No. 18	West Frankfort	Windy shot and coal dust explosion	4
Nov. 13, 1909	St. Paul Coal Co., No. 2	Cherry	Mine fire	256
Dec. 23, 1909	Chicago & Carterville Coal Co.	Herrin	Gas explosion	8
Dec. 27, 1909	Centralia Coal Co.	Centralia	Gas explosion	4
Nov. 11, 1910	Shoal Creek Coal Co.	Panama	Gas explosion	6
Feb. 13, 1911	Saline Co. Coal Co.	Harrisburg	Falling bucket	4
Oct. 23, 1911	O'Gara Coal Co., No. 9	Harrisburg	Suffocated, afterdamp	8
Jan. 15, 1913	Crescent Coal Co.	Peoria	Suffocated, afterdamp	3
Feb. 19, 1913	Eldorado Coal & M. Co.	Eldorado	Gas explosion	4
Oct. 27, 1914	Franklin Coal & Coke Co., No. 1	Royalton	Gas explosion	52
Apr. 5, 1915	Shoal Creek Coal Co.	Panama	Gas explosion	11
July 27, 1915	United Coal Co., No. 1	Christopher	Gas explosion	8
Dec. 8, 1916	Johnston City Coal Co.	Johnston City	Mine fire	3
May 12, 1917	Saline Co. Coal Co., No. 6	Grayson	Gas explosion	4
June 2, 1917	W. P. Rend C. & C. Co.	Herrin	Gas explosion	9
Sept. 17, 1917	C. W. & F. Coal Co.	Orient	Falling cage	5
Nov. 29, 1917	Old Ben Coal Corp., No. 11	Christopher	Gas explosion	17
Dec. 5, 6, 1917	Bell & Zoller Coal Co.	Zeigler	Gas explosion	3
Feb. 22, 1918	Citizens Coal Co., "A"	Springfield	Dust explosion	4
Feb. 22, 1918	C. W. & F. Coal Co., Royal	Virden	Powder explosion	4
June 29, 1918	O'Gara Coal Co., No. 8	Eldorado	Suffocated in oxygen apparatus	3
Sept. 28, 1918	Franklin Coal & Coke Co.	Royalton	Gas explosion	21
May 12, 1919	Marion Co. Coal Co.	Centralia	Gas explosion	4
June 6, 1919	Old Ben Coal Corp., No. 10	Christopher	Gas explosion	3
Feb. 14, 1921	O'Gara Coal Co., No. 8	Eldorado	Gas explosion	3
Feb. 23, 1921	Centralia Coal Co.	Centralia	Windy shot	3
Feb. 23, 1921	Union Coal Co.	Dowell	Mine fire	7
Aug. 31, 1921	Harrisburg Col. Co.	Harco	Gas explosion	12
Feb. 21, 1922	Springfield Dist. C. M. Co., No. 58	Taylorville	Shot explosion	3
Sept. 29, 1922	Consolidated Coal Co., L. C.	Johnston City	Gas explosion	5
Dec. 6, 1923	Aluminum Ore Co.	Belleville	Drowned	3
Jan. 25, 1924	Crerar-Clinch Coal Company	Johnston City	Gas explosion	33
Sept. 26, 1925	Consolidated Coal Co., No. 7	Herrin	Gas explosion	3
Jan. 29, 1926	C. W. & F. Coal Co., No. 2	West Frankfort	Gas explosion	5
Mar. 30, 1927	Saline Co. Coal Corp., No. 2	Ledford	Gas explosion	8
Dec. 20, 1927	Cosgrove-Meehan Coal Co., No. 1	Johnston City	Gas explosion	7
Jan. 9, 1928	Peabody Coal Co., No. 18	West Frankfort	Gas explosion	21
Dec. 1, 1929	Old Ben Coal Corp., No. 8	West Frankfort	Gas explosion	7
Mar. 18, 1930	Valier Coal Co.	Valier	Gas explosion	4
Oct. 3, 1931	Rennie Brothers	Chesterfield	Falling cage	3
Dec. 24, 1932	Moweaqua Coal Co.	Moweaqua	Gas explosion	54
Aug. 1, 1936	Union Colliery Co., "Kathleen Mine"	Dowell	Suffocation, carbon monoxide gas	9
June 2, 1938	Quality Coal Co.	Danville	Powder explosion	3
Feb. 22, 1941	C. W. & F. Coal Co., No. 1	Orient	Shot explosion	3
Dec. 28, 1941	Peabody Coal Co., No. 47	Harrisburg	Gas explosion	3

MINE DISASTERS WHERE MORE THAN TWO MEN WERE KILLED—Concluded

Date	Name of operator	Location	Cause	Number killed
Mar. 16, 1942	Northern Illinois Coal Corp., No. 10	Wilmington	Engine turned over	3
May 8, 1942	Superior Coal Co., No. 1	Gillespie	Drowned	4
June 17, 1942	Truax-Traer Coal Co., "Burning Star"	Elkville	Rock fall	3
Feb. 16, 1943	Peabody Coal Co., No. 24	Danville	Powder explosion	3
July 20, 1944	Consolidated Coal Co., No. 7	Staunton	Rock fall	3
Sept. 28, 1945	Panther Creek Mines Inc., No. 4	Springfield	Collision of cars	3
Mar. 25, 1947	Centralia Coal Co., No. 5	Centralia	Coal dust explosion	111
July 24, 1947	Old Ben Coal Corp., No. 8	West Frankfort	Gas explosion	27
Aug. 14, 1947	C. W. & F. Coal Co., "New Orient No. 2"	West Frankfort	Gas explosion	3
Dec. 5, 1948	C. W. & F. Coal Co., No. 1	Orient	Fall of rock	3
Oct. 24, 1950	Lumaghi Coal Co., No. 4	Collinsville	Hit by runaway pit cars	3
Dec. 21, 1951	C. W. & F. Coal Co., "New Orient No. 2"	West Frankfort	Gas explosion	119

SUMMARY OF DISASTERS BY CAUSES

Cause	Number	Number killed
Drowning	3	76
Fall of cages and buckets	4	18
Gas and dust explosions	42	704
Mine fires	4	272
Powder explosions	14	63
Suffocations	4	23
Rock falls	3	9
Haulage	3	9
Total	77	1,174

SUMMARY OF DISASTERS BY MONTH

Month	Number disasters	Number killed	Number operators	Number causes
January	7	101	7	4
February	14	117	14	9
March	7	149	7	3
April	2	61	2	1
May	4	22	4	3
June	5	21	5	4
July	3	38	4	2
August	3	24	3	2
September	6	41	6	3
October	6	72	6	5
November	5	286	5	2
December	14	232	4	6
Month not given	1	10	1	1
Total	77	1,174	*61	*8

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* Actual number.

Chapter V

STATE EXAMINING BOARD—MINING BOARD—HISTORY OF, ORGANIZATION, AND TIME OF SERVICE, WORK ACCOMPLISHED

State Examining Board

The Thirty-third General Assembly, in 1883, enacted a law providing for an examining board consisting of five members, two coal operators, two practical coal miners, and one mining engineer, appointed by the Bureau of Labor Statistics, to examine all applicants as to their qualifications for State inspectors of mines.

In conformity to this law, the Commissioners of Labor appointed a Board of Examiners consisting of the following members:

W. H. Emerson, of Fulton County, and John Maule, of St. Clair County, operators; George Neilson, of Sangamon County, and John Dixon, of LaSalle County, miners; and W. S. Cherry, of LaSalle County, mining engineer. The board met the first Monday in September, 1883, and effected an organization by electing Mr. Emerson as president and Mr. John S. Lord as secretary. At this session certain general principles were agreed upon to govern in the examination of candidates. Among these were: That examinations should be both written and oral, and uniform for all candidates. That all candidates who presented the required credentials, and who attained a given standard in their examination, should receive the certificate of the board as to their competency and be recommended to the Governor for appointment.

That 100 credit marks should be the maximum, and that 75 the minimum, above which candidates must be rated in order to receive such recommendation.

That the names of candidates should not be inscribed upon their examination papers, nor be known to the board, until after such papers had been considered and rated upon their merits.

Under the provisions of this law the Board of Examiners held two sessions in 1883, one in September and one in October.

At the September meeting 32 candidates for State inspector of mines presented themselves for examination. Of this number only four made a record satisfactory to the board and received the necessary credits for recommendation.

Inasmuch as the law required the appointment of five inspectors, it was determined to hold another examination. Public notice was given and the examination held October 9. At this meeting nine candidates came forward, of whom three were successful in passing the test.

There were then seven who were qualified and their names sent to the Governor.

The General Assembly, in 1891, enacted a law which provided for the examination of applicants for mine manager by the Board of Examiners and prohibited the employment of anyone as mine manager, in any mine equipped for shipping coal, or any mine whose output might be 25 or more tons per day, unless such person had first obtained a certificate of competency, or a certificate of service, from said Board of Examiners.

The law of 1895 provided for the examination of applicants for fire bosses and hoisting engineers, and prohibited, after July 1, 1896, the employment of anyone as such without first obtaining a certificate of competency or service from the Examining Board. Certificates of competency were good at any mine in the State. Certificates of service were valid only at the mines where the persons employed had been in continuous service for one year or more.

In the general revision of the mining laws by the Legislature, in 1899, the State Examining Board was eliminated and a board to be appointed by the Commissioners of Labor, to be known as the State Mining Board, was provided for. The name "fire boss" was changed to mine examiner, and provisions made for exchanging certificates of service for certificates of competency. This provision applied to hoisting engineers as well as fire bosses. This law required all mines, regardless of their capacity, to be in charge of certified mine managers, mine examiners and hoisting engineers.

The board, by resolution passed April 19, 1906, provided for the issuance of mine manager's certificates of the first and second class instead of certificates of competency and service. First class certificates were good at any mine in the State, while the second class was restricted to mines employing less than ten men.

In 1907 the law was amended giving the Governor the power to appoint the State Mining Board. Prior to this time, the appointing power was vested in the Commissioners of Labor. There were no further changes in the law affecting the State Mining Board until the passage, in 1917, of the Civil Administrative Code, consolidating the executive activities of the State under nine departments. All matters pertaining to the mining of coal and other minerals were placed under the Department of Mines and Minerals. Provision was made for a State Mining Board, composed of four members, appointed by the Governor, and the Director of the Department.

The membership and organization of the Examining Board and State Mining Board from 1883 to 1954 are shown on the following lists:

STATE EXAMINING BOARD, MEMBERS AND ORGANIZATION, 1883-1930

Year appointed	Member	Post office	Designation	Organization
1883	W. S. Cherry	Streator	Mining engineer	W. H. Emerson, president John S. Lord, secretary
1883	John Dixon	Streator	Miner	
1883	John Maule	Belleville	Operator	
1883	George Neilson	Springfield	Miner	
1883	W. H. Emerson	Astoria	Operator	
1884	A. W. Perry	Geneseo	Operator	A. W. Perry, president John S. Lord, secretary
1884	Henry Wood	Girard	Operator	
1884	Alex McDonald	Alton	Miner	
1884	John Keay	LaSalle	Miner	
1884	W. S. Cherry	Streator	Mining engineer	
1885	J. S. Martin	Sandoval	Operator	J. S. Martin, president John S. Lord, secretary
1885	H. E. Hamilton	Fairbury	Operator	
1885	Alex McDonald	Alton	Miner	
1885	John Harper	Colchester	Miner	
1885	Jasper Johnson	LaSalle	Mining engineer	
1887	H. H. Beach	Litchfield	Operator	H. H. Beach, president John S. Lord, secretary
1887	A. W. Boyden	Sheffield	Operator	
1887	Daniel McLaughlin	Braidwood	Miner	
1887	James Kirby	Barclay	Miner	
1887	Hugh Murray	Ava	Mining engineer	
1889	David Ross	Oglesby	Miner	David Ross, president John S. Lord, secretary
1889	J. D. Courtney	St. John	Miner	
1889	George C. Simpson	Gillespie	Operator	
1889	William Wilms	Springfield	Operator	
1889	Hugh Murray	Sparta	Mining engineer	
1891	Hugh Murray	Sparta	Mining engineer	Richard Ramsey, president J. D. Roper, secretary
1891	Richard Ramsey	Braceville	Operator	
1891	John F. Goalby	Gillespie	Miner	
1891	George C. Simpson	Springfield	Operator	
1891	William Scaife	Coal City	Miner	
1893	Patrick Meehan	Breeds	Operator	Patrick Meehan, president B. Dishon, secretary
1893	George Evans	Lincoln	Miner	
1893	William McDonald	Braidwood	Miner	
1893	J. E. Craine	Murphysboro	Mining engineer	
1893	J. M. Browning	DuQuoin	Operator	
1895	Louis F. Lumaghi	Collinsville	Operator	J. M. Browning, president B. Dishon, secretary
1895	J. M. Browning	DuQuoin	Operator	
1895	Wm. McDonald	Braidwood	Miner	
1895	L. A. Graham	Jacksonville	Miner	
1895	J. E. Craine	Murphysboro	Mining engineer	
1897	Richard Ramsey	Braceville	Operator	Richard Ramsey, president Eben Howells, secretary
1897	Wm. Cruikshanks	Middlegrove	Operator	
1897	John R. Thomas	Ladd	Miner	
1897	Thomas Haddow	Pana	Miner	
1897	Hugh Murray	Sparta	Mining engineer	Richard Newsam, president James Taylor, treasurer
1898	Richard Newsam[1]	Peoria	Operator	
1898	Pat McCann[2]	Lincoln	Miner	
1898	James Taylor[3]	Edwards	Operator	
1899	Richard Newsam	Peoria	Operator	Richard Newsam, president Pat McCann, vice president James Taylor, treasurer Eben Howells, secretary
1899	James Taylor	Edwards	Operator	
1899	Hugh Murray	Nashville	Mining engineer	
1899	Pat McCann	Lincoln	Miner	
1899	Cochran Johnson	Spring valley	Miner	

Note—In 1899 the Legislature changed the name "State Examining Board" to "State Mining Board."

STATE MINING BOARD

Year appointed	Member	Post office	Designation	Organization
1901	Richard Newsam	Peoria	Operator	Richard Newsam, president Wm. Atkinson, vice president Eben Howells, secretary Lee Kincaid, treasurer
1901	William Atkinson	Murphysboro	Miner	
1901	Lee Kincaid	Athens	Operator	
1901	Daniel Reese	Danville	Miner	
1901	Hugh Murray	Nashville	Mining engineer	
1903	Richard Newsam	Peoria	Operator	Richard Newsam, president Wm. Atkinson, vice president Eugene A. Pearce, secretary Lee Kincaid, treasurer
1903	Lee Kincaid	Athens	Operator	
1903	Wm. Atkinson	Murphysboro	Miner	
1903	Daniel Reese	Danville	Miner	
1903	Andrew Flesher	Taylorville	Hoisting engineer	
1905	Richard Newsam	Peoria	Operator	Richard Newsam, president Thomas Moses, secretary
1905	David Christie	Murphysboro	Miner	
1905	Lee Kincaid	Athens	Operator	
1905	Daniel Reese	Danville	Miner	
1905	Andrew Flesher	Taylorville	Hoisting engineer	
1906	Henry Terrill[4]	Colchester	Miner	
1906	Martin Linskey[5]	Streator	Hoisting engineer	
1907	Richard Newsam	Peoria	Operator	Richard Newsam, president Henry Terrill, vice president Martin Bolt, secretary
1907	David Christie	Murphysboro	Miner	
1907	Henry Terrill	Colchester	Miner	
1907	Martin Linskey	Streator	Hoisting engineer	
1908	Matt Davidson[6]	DuQuoin	Miner	
1909	Richard Newsam	Peoria	Operator	Richard Newsam, president Henry Terrill, vice president Martin Bolt, secretary
1909	Lee Kincaid	Athens	Operator	
1909	Henry Terrill	Colchester	Miner	
1909	Matt Davidson	DuQuoin	Miner	
1909	Martin Linskey	Streator	Hoisting engineer	
1910	Evan D. John[7]	Carbondale	Operator	
1911	Richard Newsam	Peoria	Operator	Richard Newsam, president Henry Terrill, vice president S. M. Duggan, secretary Martin Bolt, chief clerk
1911	Evan D. John	Carbondale	Operator	
1911	S. M. Duggan	Girard	Miner	
1911	Martin Linskey	Streator	Hoisting engineer	
1911	Wm. Sperry	Canton	Miner	
1913	John Bohlander	Pekin	Operator	John Bohlander, president James Shaw, secretary Martin Bolt, chief clerk to Dec., 1914 J. F. Morris, chief clerk
1913	James Forester	DuQuoin	Operator	
1913	James Shaw	Virden	Miner	
1913	Thomas L. Jones	Ladd	Miner	
1913	J. B. McKiernan	Peoria	Hoisting engineer	
1915	John Bohlander	Pekin	Operator	John Bohlander, president J. F. Morris, chief clerk
1915	James Forester	DuQuoin	Operator	
1915	Thomas L. Jones	Ladd	Miner	
1915	J. B. McKiernan	Peoria	Hoisting engineer	

STATE MINING BOARD—Concluded

Year appointed	Member	Post office	Designation	Organization
1917	Evan D. John	Springfield	Director	Evan D. John, director Martin Bolt, ass't. director
1917	M. S. Coleman	Harrisburg	Operator	
1917	James Needham	Chicago	Operator	
1917	Wm. Hutton	DuQuoin	Miner	
1917	James S. Richards	Belleville	Miner	
1919	Joseph C. Thompson[8]	Springfield	Director	Jos. C. Thompson, director Martin Bolt, ass't. director
1919	M. S. Coleman	Harrisburg	Operator	
1919	James Needham	Chicago	Operator	
1919	Wm. Hutton	DuQuoin	Miner	
1919	Peter Joyce	Springfield	Miner	
1920	Robert M. Medill[9]	Harrisburg	Director	
1921	Robert M. Medill	Springfield	Director	Robt. M. Medill, director Martin Bolt, ass't. director
1921	M. S. Coleman	Harrisburg	Operator	
1921	James Needham	Chicago	Operator	
1921	Wm. Hutton	DuQuoin	Miner	
1921	Peter Joyce	Springfield	Miner	
1923	Robert M. Medill	Springfield	Director	Robt. M. Medill, director Martin Bolt, ass't. director
1923	M. S. Coleman	Harrisburg	Operator	
1923	James Needham	Chicago	Operator	
1923	F. M. Devlin	West Frankfort	Miner	
1923	Patrick Gillen	Springfield	Miner	
1924	Martin Bolt[11]	Springfield	Director	Martin Bolt, director A. D. Lewis, ass't. director
1924	S. E. Redpath[10]	Springfield	Miner	
1924	M. S. Coleman	Harrisburg	Operator	
1924	James Needham	Chicago	Operator	
1924	F. M. Devlin	West Frankfort	Miner	
1926	A. D. Lewis[12]	Springfield	Director	A. D. Lewis, director
1926	M. S. Coleman	Harrisburg	Operator	
1926	James Needham	Chicago	Operator	
1926	F. M. Devlin	West Frankfort	Miner	
1926	S. E. Redpath	Springfield	Miner	
1928	A. D. Lewis	Springfield	Director	A. D. Lewis, director Frank Rosbottom, ass't. director
1928	M. S. Coleman	Harrisburg	Operator	
1928	Fred S. Pfahler[13]	Gillespie	Operator	
1928	F. M. Devlin	West Frankfort	Miner	
1928	S. E. Redpath	Springfield	Miner	
1930	John G. Millhouse[14]	Springfield	Director	John G. Millhouse, director Peter Joyce, ass't. director
1930	Joseph Viano[15]	Coal City	Miner	
1930	Fred S. Pfahler	Gillespie	Operator	
1930	John Mentler[16]	Centralia	Miner	
1930	Paul Weir[17]	Centralia	Operator	

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[1] Vice Richard Ramsey, deceased. [2] Vice Thomas Haddow, resigned. [3] Vice William Cruikshank, resigned. [4] Vice Daniel Reese, resigned. [5] Vice Andrew Flesher, resigned. [6] Vice Daniel Christie, deceased. [7] Vice Lee Kincaid, resigned. [8] Vice Evan John, deceased. [9] Vice Joseph C. Thompson, deceased. [10] Vice Patrick Gillen, resigned. [11] Vice Robert M. Medill, resigned. [12] Vice Martin Bolt, deceased. [13] Vice James Needham, deceased. [14] Vice A. D. Lewis, resigned. [15] Vice S. E. Redpath, resigned. [16] Vice F. M. Devlin, resigned. [17] Vice M. S. Coleman, resigned.

STATE MINING BOARD, MEMBERS AND ORGANIZATION, 1930-1953

Year appointed	Member	Post office	Designation	Organization	Term served
1930	John G. Millhouse	Litchfield	Director	John G. Millhouse, Director	1930-1934
1930	Fred S. Pfahler	Gillespie		Peter Joyce, Assistant Director	1930-1934
1930	Joseph Viano	Coal City			
1930	Paul Weir	Centralia			
1930	John Mentler	Centralia			

Year appointed	Member	Post office	Designation	Organization	Term served
1934	James McSherry	DuQuoin	Chairman, Ex-Officio		
1934	L. A. Wasson	Harrisburg	Operator		
1934	J. W. Starks	Taylorville	Operator	James McSherry, Director	1934-1941
1934	Elmer Weidler[1]	Mt. Olive	Miner	Enoch Martin, Assistant Director	1934-1941
1934	Peter Proctor[2]	Marseilles	Miner		

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[1] Replaced by George H. Knox of Hillsboro, 1935.
[2] Replaced by Jesse Jackson of Johnston City, 1936.

Year appointed	Member	Post office	Designation	Organization	Term served
1941	Robert M. Medill[3]	Roanoke	Chairman, Ex-Officio	Robert M. Medill, Director	1941-1947
1941	B. H. Schull	Pinckneyville	Operator	Harold L. Walker, Director	Apr. 2, 1947-Oct. 1, 1947
1941	Walter Gill	Peoria	Operator	Thomas Moses, Director	Oct. 1, 1947-Feb. 20, 1948
1941	John Mentler[2]	Centralia	Miner	Robert R. Cruse, Director	Mar. 1, 1948-Jan. 16, 1949
1941	Joseph E. McMullen[1]	Collinsville	Miner	Robert Weir, Assistant Director	1941-1949

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[1] Replaced by Byron O'Neal of Staunton, 1941.
[2] Replaced by Murrell Reak of West Frankfort, 1942.
Byron O'Neal replaced by William Mitchell of Gillespie, 1946.
Murrell Reak and William Mitchell replaced by Oliver Bishop of Zeigler and William M. Keith of Gillespie, 1947.
[3] Robert M. Medill retired and replaced by Harold L. Walker of Urbana, April 2, 1947.
Harold Walker replaced by Thomas Moses of Danville, Oct. 1, 1947.
Thomas Moses died in office, Feb. 20, 1948. Replaced by Robert R. Cruse Mar. 1, 1948.

STATE MINING BOARD, MEMBERS AND ORGANIZATION, 1930-1953—Concluded

Year appointed	Member	Post office	Designation	Organization	Term served
1949	James W. Starks[1]	Taylorville	Executive Officer	James W. Starks, Director	Jan. 17, 1949-Feb. 3, 1949
1949	Walter Gill	Springfield	Operator	Harold L. Walker, Director	Feb. 8, 1949-Apr. 18, 1949
1949	Frank L. White	Chicago	Operator	Walter Eadie, Director	Apr. 19, 1949-Jan. 14, 1953
1949	Oliver Bishop[2]	Zeigler	Miner	William J. Johnson, Assistant Director	1949-1953
1949	Walter Vesper	Staunton	Miner		

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[1] James W. Starks died in office Feb. 3, 1949. Replaced by Harold L. Walker of Urbana, Feb. 8, 1949. Harold L. Walker replaced by Walter Eadie of West Frankfort, Apr. 19, 1949.

[2] Replaced by Danny Jones of Royalton, 1950.

Year appointed	Member	Post office	Designation	Organization	Term served
1953	Ben H. Schull	Marion	Executive Officer		
1953	Walter Gill	Springfield	Operator	Ben H. Schull, Director	Jan. 15, 1953-
1953	John W. Abrell	Farmersville	Operator	Murrell Reak, Assistant Director	Jan. 15, 1953-
1953	Oliver E. Bishop	Zeigler	Miner		
1953	Roy V. France	Staunton	Miner		

In addition to holding examinations, the board is invested with other important duties, such as, in cooperation with State mine inspectors, enforcing all the provisions of the State mining law, hear complaints, and upon sufficient evidence, remove any State mine inspector; to cancel and revoke the certificate of any mine manager, hoisting engineer or mine examiner if, after proper notice and hearing, such person is found guilty of misrepresentation of his experience, or of fraud in obtaining his certificate, or has become unworthy to hold said certificate by reason of violation of the law, intemperate habits, incapacity, abuse of authority or for other sufficient cause; to change the boundaries of inspection districts; to grant a permit to operate a second motion engine, at any mine employing not more than ten men, to any person recommended to the board by the State mine inspector of the district.

During the existence of the State Examining Board and the State Mining Board, a great number of men have been examined as to their qualifications to hold the various positions provided by law and have granted certificates to the following number for each position:

State Inspectors	648
Mine Managers, First Class	4,982
Mine Managers, Second Class	3,623
Hoisting Engineers, Steam	3,383
Hoisting Engineers, Electric	1,236
Mine Examiners	6,756

Chapter VI

MINE INSPECTION SERVICE

Prior to 1870, no law requiring the inspection of mines by an elective or appointive officer had been enacted and whatever examination or inspection was done was made by an agent or employe of the operator.

The Twenty-seventh General Assembly, in 1871, passed the first law on this subject, making it mandatory on county boards, in every county where coal is mined, to appoint an inspector of mines. These inspectors were to hold their offices for one year and be paid from the county treasury. The powers and duties were somewhat similar to those of State mine inspectors at the present time. These inspectors were to make reports to the county boards of their respective counties.

This law proved to be inadequate and unsatisfactory. Some counties did not accept the responsibilities imposed by the law, and but few of those which did, made sufficient appropriations to secure an efficient, thorough and scientific examination of the mines as the law contemplated, and as the importance of the industry demanded.

The General Assembly consequently passed an Act, which was approved June 18, 1883, amending the law, so as to provide for State inspectors of mines. The leading features of this law may be summarized as follows:

The coal-producing region of the State was divided into five divisions or districts. An inspector, appointed by the Governor and paid by the State, was assigned to each district. All applicants must be examined and their qualifications passed upon, by the Board of Examiners. Each inspector was required to make an annual report to the Bureau of Labor, and, in general, to see that the law was enforced.

The first examination was held at Springfield the first Tuesday in September, 1883, at which, out of 32 candidates, only four received the required rating to entitle them to recommendation for appointment. These were: Walton Rutledge of Alton, Alexander Roland, Streator, James P. Cummings, Braceville, Robert Winning, Carterville.

There being five districts and but four qualified for appointment, it was decided to hold another examination, beginning Tuesday, October 9.

At this session there were nine applicants, three of whom were successful, viz: Thomas Hudson, William Adkinson and Thomas S. Cumming. These names, together with the four who passed at the previous examination, were certified to the Governor as having the requisite qualifications for State inspector of mines.

From this list, the following appointments and assignments were made:

Alexander Roland, inspector, First District.
Thomas Hudson, inspector, Second District.
James P. Cumming, inspector, Third District.
Walton Rutledge, inspector, Fourth District.
Robert Winning, inspector, Fifth District.

The law of 1883 was amended by Act of the Legislature in 1895, dividing the State into seven districts with an inspector for each district. In 1899, a general revision of the mining law was enacted. This law gave the Board of Labor Commissioners power to change the boundaries of inspection districts, and provided for the necessary traveling expenses of the inspectors.

In 1905, an amendment was enacted providing for the division of the State into ten inspection districts with an inspector in each district.

In 1911, the number of inspection districts was increased to twelve. While the boundaries of nearly all districts have been changed, the number at this date remains the same. However, an additional inspector, known as inspector-at-large, was provided for in the appropriation made to the Department by the Legislature in 1919, and Richard Neeson was appointed to the position in July of that year.

STATE INSPECTORS

The personnel of the inspection service and the counties composing the various districts from 1883 to the present time may be found in the following list:

From 1883 to 1895

Name of inspector	Year appointed	District	Counties
Alexander Roland	1883	First	Grundy, Kankakee, LaSalle, Livingston, Will
Quinton Clark	1887		
Thomas S. Cumming	1893		
Thomas Hudson	1883	Second	Bureau, Hancock, Henry, Knox, McDonough, Marshall, Mercer, Rock Island, Schuyler, Stark, Warren
Edward Fellows	1893		
James P. Cumming	1883	Third	Cass, Fulton, Logan, McLean, Menard, Peoria, Tazewell, Vermilion, Woodford.
John Rollo	1884		
James Freer	1885		
James A. Keating	1893		
Walton Rutledge	1883	Fourth	Bond, Calhoun, Christian, Coles, Edgar, Greene, Jasper, Jersey, Macon, Macoupin, Madison, Morgan, Montgomery, Sangamon, Scott
John Keay	1893		
Robert Winning	1883	Fifth	Clinton, Gallatin, Jackson, Johnson, Marion, Perry, Randolph, St. Clair, Saline, Washington, Williamson
James Taylor	1887		
Elisha Beadle	1890		
John G. Massie	1891		
Hugh J. Hughes	1893		

From 1895 to 1905

Name of inspector	Year appointed	District	Counties
James A. Keating	1895	First	Grundy, Kankakee, LaSalle, Livingston, Will.
Hector McAllister	1897		
Charles Duncan	1895	Second	Bureau, Henry, Marshall, Mercer, Peoria, Putnam, Rock Island, Stark, Woodford.
Thomas Hudson	1897		
Robert Pickett	1895	Third	Brown, Fulton, Hancock, Knox, McDonough, Schulyer, Warren
John W. Graham	1897		
James Taylor	1901		
Henry E. Malloy	1895	Fourth	Cass, Edgar, Logan, McLean, Macon, Menard, Tazewell, Vermilion
John E. Williams	1897		
Thomas Weeks	1901		
John Keay	1895	Fifth	Calhoun, Christian, Greene, Jersey, Macoupin, Montgomery, Morgan, Sangamon, Scott, Shelby
Walton Rutledge	1897		
Thomas S. Cumming	1895	Sixth	Bond, Clinton, Madison, Marion, St. Clair
John Dunlop	1897		
James B. Bennett	1895	Seventh	Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Washington, White, Williamson
Evan D. John	1897		

From 1905 to 1911

Name of inspector	Year appointed	District	Counties
Hector McAllister	1905	First	Grundy, Kankakee, LaSalle, Will
Thomas Hudson	1901	Second	Bureau, Henry, Knox, Mercer, Rock Island, Warren
James Taylor	1905	Third	Livingston, Marshall, Peoria, Putnam, Stark, Woodford
John Dunlop	1907		
Thomas Weeks	1905	Fourth	Fulton, Hancock, McDonough, McLean, Tazewell
Thomas Hannah	1905	Fifth	Edgar, Macon, Moultrie, Vermilion
Thomas Moses	1906		
W. S. Burris	1910		
Frank J. Campbell	1905	Sixth	Brown, Cass, Logan, Menard, Morgan, Sangamon, Schuyler
Thomas Hannah	1906		
James Taylor	1908		
W. W. Williams	1905	Seventh	Calhoun, Christian, Greene, Jersey, Macoupin, Montgomery, Morgan, Scott, Shelby
Walton Rutledge	1905	Eighth	Bond, Madison, St. Clair
John Dunlop	1905	Ninth	Clinton, Franklin, Jefferson, Marion, Perry, Randolph, Washington, White
W. S. Burris	1906		
Oscar Cartlidge	1910		
Thomas Little	1905	Tenth	Gallatin, Jackson, Johnson, Saline, Williamson

From 1911 to 1917

Name of inspector	Year appointed	District	Counties
Hector McAllister	1911	First	Grundy, LaSalle, Livingston, Will
Ben D. Roberts	1913		
Thomas Hudson	1911	Second	Bureau, Henry, Knox, Mercer, Rock Island, Stark, Warren
Thomas H. Devlin	1913		
John Dunlop	1911	Third	Marshall, Menard, Peoria, Putnam, Tazewell, Woodford
Patrick Hogan	1913		
George L. Morgan	1914		
James Taylor	1911	Fourth	Cass, Fulton, Hancock, McDonough, Morgan, Schuyler, Scott
David Z. Thrush	1913		
W. S. Burris	1911	Fifth	Christian, Macon, Moultrie, Shelby, Vermilion
J. W. Stark	1913		
Thomas P. Back	1911	Sixth	Logan, McLean, Sangamon
John Garrity	1914		
W. W. Williams	1911	Seventh	Calhoun, Greene, Jersey, Macoupin, Montgomery
Archibald Frew	1913		
W. L. Morgan	1911	Eighth	Bond, Clinton, Madison, Marion
John Kaney			
Walton Rutledge	1911	Ninth	St. Clair
William Hartman	1913		
Thomas Little	1911	Tenth	Jackson, Jefferson, Perry, Randolph, Washington
John McClintock	1913		
Frank Rosbottom	1911	Eleventh	Franklin, Gallatin, Saline, White
George L. Morgan	1913		
John E. Jones	1915		
Oscar Cartlidge	1911	Twelfth	Johnson, Williamson
J. W. Fairbairn	1912		
John Garrity	1913		
James S. Reid	1914		

From 1917 to 1930

Name of inspector	Year appointed	District	Counties
Walter A. Waite	1917	First	Bureau, Grundy, Henry, LaSalle, Livingston, Mercer, Putnam, Rock Island and Will
Peter Faletti	1925		
William E. Kidd	1917	Second	McLean, Marshall, Peoria, Stark, Tazewell and Woodford
Harry C. Hindson	1930		
Thomas P. Back	1917	Third	Adams, Brown, Cass, Fulton, Hancock, Knox, McDonough, Schuyler and Warren
Robert Reavley	1917	Fourth	Logan[1], Menard, Sangamon and Scott
Richard Neeson	1918		
Robert F. Back	1919		
Francis J. Devlin	1921		
Thomas Hunter	1924		
Harry Marshall	1930		
Joseph Haskins	1917	Fifth	Christian[2], Edgar, Macon, Moultrie, Shelby[3], and Vermilion
Thomas English	1924		
Mark Ord	1926		
Fred T. Hodges	1928		

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[1] Transferred to Second District, 1925.
[2] Transferred to Fourth District, 1926.
[3] Transferred to Sixth District, 1926.

FROM 1917 TO 1930—Concluded

Name of inspector	Year appointed	District	Counties
Thomas A. Lewis	1917	Sixth	Greene, Jersey, Macoupin and Montgomery
John G. Millhouse	1918		
John K. Fraser	1929		
Robert Pettigrew	1917	Seventh	Bond, Madison and Marion
W. L. Morgan	1918		
Henry D. Thompson	1920		
John White	1930		
Thomas C. Wright	1917	Eighth	Clinton, Monroe and St. Clair
James R. Richards	1921		
Joseph Thompson	1917	Ninth	Jackson, Perry, Randolph and Washington
Frank Rosbottom	1918		
Edward S. Flynn	1928		
Frank Rosbottom	1917	Tenth	Franklin and Jefferson
Joseph C. Thompson	1918		
John O'Rourke	1919		
E. J. Hoey	1922		
James Sneddon	1926		
James Weir	1930		
George Bagwill	1917	Eleventh	Gallatin, Saline, Wabash and White
Thomas English	1920		
Joseph Haskins	1924		
George Bagwill	1926		
H. T. Banister	1917	Twelfth	Johnson and Williamson
Henry D. Thompson	1919		
W. L. Morgan	1920		
G. W. Gosnell	1923		
Arthur W. Plumlee	1924		
Richard Neeson	1919		Inspector-at-Large
Patrick Gillen	1924		Inspector-at-Large
Thomas English	1930		Inspector-at-Large

STATE INSPECTORS, 1931-1954

Name of inspector	Year appointed	Counties	Counties transferred to other districts	Counties added to district
DISTRICT ONE				
Peter Faletti	1925	Bureau, Grundy, [1]Henry, LaSalle, Livingston, [2]Mercer, Putnam, [3]Rock Island and Will	[1]Transferred to Dist. Three ...... 1939 [2]Transferred to Dist. Fourteen ...... 1939 [3]Transferred to Dist. Fourteen 1939	Kendall and Kankakee ...... 1934 Marshall ...... 1939 Stark and Woodford 1947
Joseph B. Casassa	1933			
Steve L. Faletto	1938			
Charles Van Schaick	1940			
DISTRICT TWO				
Harry C. Hindson	1930	McLean, [1]Marshall, Peoria, [2]Stark, Tazewell and [3]Woodford	[1]Transferred to Dist. One ...... 1939 [2]Transferred to Dist. One ...... 1947 [3]Transferred to Dist. One ...... 1947 Logan Transferred to Dist. Four 1947	Logan 1939
George H. Deemy	1933			
Fred Saurs	1940			
Arthur Riedlinger	1943			
DISTRICT THREE				
Thomas P. Back	1917	[1]Adams, [2]Brown, [3]Cass, [4]Fulton, [5]Hancock, Knox, [6]McDonough, [7]Schuyler and [8]Warren	[1], [2], [3], [4], [5], [6] Transferred to Dist. Fourteen ...... 1939 [3]Transferred to Dist. Four ...... 1932 [4]Transferred to Dist. Four ...... 1947 Henderson Transferred to Dist. Fourteen ...... 1939 Cass and Mason Transferred to Dist. Four 1947	Henderson and Mason ...... 1934 Cass ...... 1939 Henry ...... 1939 Henderson, Warren, McDonough, Adams, Brown, Schuyler, Rock Island, and Mercer 1947
F. M. Guthrie	1933			
Robert Taggart	1940			
William L. Morgan	1947			
Charles D. Ragsdale	1948			
Otis Heron	1950			
Homer E. Roman	1953			
DISTRICT FOUR				
Harry Marshall	1930	[1]Christian, [2]Logan, [3]Menard, [4]Morgan, [5]Pike, [6]Sangamon and [7]Scott	[1]Transferred to Dist. Seven ...... 1947 [2]Transferred to Dist. Two ...... 1939 [3]Transferred to Dist. Six ...... 1951 [4], [5]Transferred to Dist. Six ...... 1947 [5], [6]Transferred to Dist. Seven ...... 1939 Cass Transferred to Dist. Three ...... 1939 Shelby Transferred to Dist. Seven ...... 1947 Macon Transferred to Dist. Six ...... 1947 Logan Transferred to Dist. Six 1951	Cass ...... 1932 Macon ...... 1939 Shelby ...... 1939 Cass, Fulton, Logan, Mason ...... 1947 Knox 1948
Harry Roberts	1934			
George Hall	1940			
Robert Taggart	1947			
John D. McMillan	1948			
Sidney Keene	1949			
John A. Towers	1951			
James I. Jayne	1953			
DISTRICT FIVE				
Fred T. Hodges	1928	Edgar, [1]Macon, Moultrie Vermilion	[1]Transferred to Dist. Four 1939	Champaign, Coles, DeWitt, Douglas, Ford, Iroquois, Piatt ...... 1934 Clark, Cumberland 1939
Thomas McKenna	1934			
Charles Blakeney	1940			

STATE INSPECTORS, 1931-1954—Continued

Name of inspector	Year appointed	Counties	Counties transferred to other districts	Counties added to district
District Six				
John K. Fraser	1929	[1]Greene, [2]Jersey, [3]Macoupin, [4]Montgomery, [5]Shelby	[1], [2]Transferred to Dist. Seven 1939 [3], [4]Transferred to Dist. Ten 1947 [5]Transferred to Dist. Four 1939 Calhoun Transferred to Dist. Seven 1939 Bond, Fayette Transferred to Dist. Ten 1947	Calhoun 1934 Bond, Fayette 1939 Macon, Morgan, Sangamon 1947 Logan, Menard 1951
Joseph Firth, Jr.	1933			
Frank Stank	1940			
George Hall	1947			
District Seven				
John White	1930	[1]Bond, [2]Madison, [3]Marion	[1]Transferred to Dist. Six 1939 [2]Transferred to Dist. Nine 1947 [3]Transferred to Dist. Thirteen 1939 Clay, Crawford, Effingham, Jasper, Lawrence, Richland Transferred to Dist. Thirteen 1939 Fayette Transferred to Dist. Six 1939 Cumberland Transferred to Dist. Five 1939 Calhoun, Greene, Jersey, Pike, Scott Transferred to Dist. Nine 1947	Clark, Clay, Crawford, Cumberland, Effingham, Fayette, Jasper, Lawrence, Richland 1934 Calhoun, Greene, Jersey, Pike, Scott 1939 Christian, Shelby 1947
T. Alvin Scully	1934			
Benn Pitts	1937			
John B. Schmacker	1939			
Rudolph Schiber	1940			
Albert H. Morris	1947			
District Eight				
James R. Richards	1921	[1]Clinton, [2]Monroe, [3]St. Clair	[1]Transferred to Dist. Thirteen 1942 [2], [3]Transferred to Dist. Eleven 1947	Macoupin 1947
David T. Stuart	1933			
Fred Lippert	1940			
William Mitchell	1947			
District Nine				
Edward S. Flynn	1928	[1]Jackson, [2]Perry, [3]Randolph, [4]Washington	[1], [2], [3]Transferred to Dist. Thirteen 1947 [4]Transferred to Dist. Thirteen 1939	Calhoun, Greene, Jersey, Madison, Pike, St. Clair, Scott 1947
Leonard Forester	1934			
John Golden	1940			
Rudolph Schiber	1947			
District Ten				
James Weir	1930	[1]Franklin, [2]Jefferson	[1]Transferred to Dist. Fourteen 1947 [2]Transferred to Dist. Thirteen 1942	Bond, Fayette, Macoupin, Madison, Montgomery 1947
William J. Johnson	1933			
Robert Weir	1940			
J. R. Wilson	1942			
Frank Stank	1947			

STATE INSPECTORS, 1931-1954—Continued

Name of inspector	Year appointed	Counties	Counties transferred to other districts	Counties added to district
DISTRICT ELEVEN				
George Bagwill	1926	[1]Gallatin, [2]Saline, [3]Wabash, White	[1]Divided into Two Districts, Dist. Twenty-One, Dist. Twenty-Two 1947 [2]Divided into Two Districts, Dist. Twenty-One, Dist. Twenty-Two 1947 [3]Transferred to Dist. Thirteen 1939 Edwards, Wayne Transferred to Dist. Thirteen 1939	Edwards, Hamilton, Hardin, Pope, Wayne 1934 Monroe, St. Clair 1947
Loren A. Belt	1933			
Michael Taggart	1938			
George Bagwill	1940			
Fred Lippert	1947			
DISTRICT TWELVE				
Arthur W. Plumlee	1924	Johnson, [1]Williamson	[1]Divided into Four Districts, District Eighteen District Nineteen District Twenty District Twenty-Two 1947	Alexander, Massac, Pulaski, Union 1934 Clay, Clinton, Crawford, Edwards, Effingham, Jasper, Jefferson, Lawrence, Marion, Randolph, Richland, Wabash, Washington, Wayne 1947
Fred Schoonover	1933			
Ray McCluskey	1940			
Sidney Smith	1947			
Harold V. Richmond	1952			
DISTRICT THIRTEEN				
Benn Pitts	1939	[1]Clay, [2]Crawford, [3]Edwards, [4]Effingham, [5]Jasper, [6]Lawrence, [7]Marion, [8]Richland, [9]Washington, [10]Wabash, [11]Wayne	[1], [2], [3], [4], [5], [6], [7], [8], [9], [10], [11]Transferred to Dist. Twelve 1947	Perry, Randolph, Jackson 1947
Driscol Scanlon	1940			
John Golden	1947			
John A. Towers	1948			
Sydney Keene	1951			
Ray McCluskey	1953			
DISTRICT FOURTEEN				
Stanley B. Ingerski	1939	[1]Adams, [2]Brown, [3]Hancock, [4]Henderson, [5]McDonough, [6]Mercer, [7]Rock Island, [8]Schuyler, [9]Warren	[1], [2], [3], [4], [5], [6], [7], [8], [9]Transferred to Dist. Three 1947 Franklin Divided into Three Districts District Fifteen District Sixteen District Seventeen 1950	Franklin 1947
W. L. Morgan	1940			
Elmer Edmonds	1947			
DISTRICT FIFTEEN				
John Kinstler	1947	Franklin, Perry		
John L. Romine	1950			

STATE INSPECTORS, 1931-1954—Concluded

Name of inspector	Year appointed	Counties	Counties transferred to other districts	Counties added to district
DISTRICT SIXTEEN				
J. R. Wilson	1947	Franklin		
Edmond Grezlak	1952			
DISTRICT SEVENTEEN				
James Sneddon	1947	Franklin		
DISTRICT EIGHTEEN				
Ray McCluskey	1947	Jackson, Williamson		
Edward Mullaburn	1948			
DISTRICT NINETEEN				
Edward Mullaburn	1947	Williamson		
Curtis Hutson	1948			
Roscoe Moore	1950			
DISTRICT TWENTY				
Arthur W. Plumlee	1947	Williamson	Jackson Transferred to Two Districts	Jackson 1949
Edmond Grezlak	1950		District Thirteen	
Aden Whaley	1952		District Eighteen 1951	
DISTRICT TWENTY-ONE				
John Taylor	1947	[1]Gallatin, Saline	[1]Transferred to Dist. Twenty-Two 1949	Williamson 1949
Mike Sciranko	1948			
DISTRICT TWENTY-TWO				
George Bagwill	1947	Gallatin, Saline, [1]Williamson	[1]Transferred to Dist. Twenty-One 1949	
John Taylor	1948			
Theodore Plumlee	1953			
INSPECTORS-AT-LARGE				
Thomas English	1930			
Oscar Saunders	1939			
Joe Harris	1941			
Elmer Edmonds	1941			
John D. McMillan	1946			
Murrell Reak	1947			
John J. Kotzman	1949			
Ray McCluskey	1952			

In the list following will be found the name, date of service and years of service, of the 138 men who have held the position of State mine inspector:

STATE INSPECTION SERVICE

List of Inspectors, Date of Appointment, and Time of Service

Name of Inspectors	Date of Service		Reappointed and Served		Years of Service
	From	To	From	To	
Atkinson, William	1904	1906			2
Back, Robert F.	1919	1921			2
Back, Thomas P.	1911	1914	1917	1933	19
Bagwill, George	1917	1920	1926 1940	1933 1948	18
Bannister, Henry T.	1917	1919			2
Beadle, Elisha	1890	1892			2
Belt, Loren A.	1933	1938			5
Bennett, James B.	1896	1897			1
Blakeney, Charles	1940	[1]			14
Burris, W. S.	1905	1913			8
Cartlidge, Oscar	1910	1913			3
Casassa, John B.	1933	1938			5
Clark, Quinton	1887	1893			6
Cumming, James P.	1883	1887			4
Cumming, Thomas S.	1893	1897			4
Demmy, George H.	1933	1940			7
Devlin, Francis J.	1921	1923			2
Devlin, Thomas H.	1913	1917			4
Duncan, Charles	1895	1897			2
Dunlop, John	1897	1905	1908	1913	13
Edmonds, Elmer	1947	1950			3
English, Thomas	1920	1926			6
Fairbairn, J. W.	1911	1913			2
Faletti, Peter	1925	1932			7
Falletto, Steve L.	1938	1940			2
Fellows, Edward	1893	1895			2
Firth, Joseph Jr.	1933	1940			7
Flynn, Edward S.	1928	1934			6
Forester, Leonard	1934	1940			6
Fraser, John K.	1929	1933			4
Freer, James	1885	1893			8
Frew, Archibald	1913	1917			4
Garrity, John	1914	1917			3
Golden, John	1940	1948			8
Graham, John W.	1897	1901			4
Grezlak, Edmund	1950	[1]			4
Guthrie, F. M.	1933	1940			7
Hall, George	1940	[1]			14
Hannah, Thomas	1905	1911			6
Hartman, William	1913	1917			4
Haskins, Joseph	1917	1925			8
Heron, Otis	1950	1953			3
Hindson, Harry C.	1930	1932			2
Hodges, Fred T.	1928	1934			6
Hoey, E. J.	1921	1926			5
Hogan, Patrick	1913	1914			1
Hudson, Thomas	1883	1893	1901	1913	22
Hughes, Hugh J.	1893	1895			2
Hunter, Thomas	1923	1930			7
Hutson, Curtis	1948	1951			3
Ingerski, Stanley B.	1939	1940			1
John, Evan D.	1897	1904			7
Johnson, William J.	1933	1940			7
Jones, John E.	1914	1917			3
Kaney, John	1913	1917			4
Keating, James A.	1893	1897			4
Keay, John	1893	1897			4
Keene, Sidney	1949	1951			2
Kidd, William E.	1917	1930			13
Kinstler, John	1947	1950			3
Lewis, Thomas A.	1917	1918			1

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[1] Still in the Service, 1954.

STATE INSPECTION SERVICE—Continued

Name of Inspectors	Date of Service		Reappointed and Served		Years of Service
	From	To	From	To	
Lippert, Fred	1940	[1]			14
Little, Thomas	1905	1913			8
McAllister, Hector	1897	1913			16
McClintock, John	1913	1917			4
McCluskey, Ray	1940	1948			8
McKenna, Thomas	1934	1940			6
McMillan, John P.	1948	1949			1
Mallaburn, Edward	1947	[1]			7
Malloy, Henry E.	1895	1897			2
Marshall, Harry	1930	1934			4
Massie, J. G.	1892	1893			1
Millhouse, John G.	1918	1929			11
Mitchell, William	1947	[1]			7
Moore, Roscoe	1951	[1]			3
Morgan, George L.	1913	1917			4
Morgan, William L.	1911	1913	1918 1940	1924 1948	16
Morris, Albert H.	1947	[1]			7
Moses, Thomas	1905	1911			6
Neeson, Richard	1918	1919			1
Ord, Mark	1925	1928			3
O'Rourke, John	1919	1921			2
Pettigrew, Robert	1917	1918			1
Pitts, Benn	1937	1940			3
Plumlee, Arthur W.	1923	1933	1947	1950	13
Plumlee, Theodore	1953	[1]			1
Prickett, Robert	1895	1897			2
Ragsdale, Charles D.	1948	1950			2
Reavley, Robert	1917	1918			1
Reid, James S.	1913	1917			4
Richards, James R.	1921	1933			12
Richmond, Harold V.	1951	[1]			3
Riedlinger, Arthur	1943	[1]			11
Roberts, Ben D.	1913	1917			4
Roberts, Harry	1934	1940			6
Roman, Homer E.	1953	[1]			1
Romine, John L.	1950	[1]			4
Roland, Alexander	1883	1885			2
Rosbottom, Frank	1911	1913	1917	1928	13
Rutledge, Walton	1883	1893	1897	1913	26
Saurs, Fred	1940	1943			3
Scanlon, Driscoll	1940	1947			7
Schiber, Rudolph R.	1940	[1]			14
Schmacker, John B.	1939	1940			1
Schoonover, Fred	1933	1940			7
Sciranko, Mike	1948	[1]			6
Scully, T. Alvin	1934	1937			3
Smith, Sidney	1947	1952			5
Sneddon, James	1926	1930	1947	[1]	11
Stank, Frank	1940	[1]			14
Starks, W. J.	1913	1917			4
Stuart, David T.	1933	1940			7
Taggart, Michael	1938	1940			2
Taggart, Robert	1940	1948			8
Taylor, James	1887	1890	1901	1913	15
Taylor, John	1947	1953			6
Thompson, Henry D.	1919	1930			11
Thompson, Joseph	1917	1919			2
Thrush, David Z.	1913	1917			4
Towers, John A.	1948	[1]			6
Van Schaick, Charles	1940	[1]			14
Waite, Walter A.	1917	1925			8
Weeks, Thomas	1901	1911			10
Weir, James	1930	1933			3
Weir, Robert	1940	1942			2
Whaley, Aden	1952	[1]			2
White, John	1930	1934			4
Williams, John E.	1897	1901			4
Williams, W. W.	1905	1913			8
Wilson, James B.	1942	1952			10
Winning, Robert	1883	1885			2
Wright, Thomas C.	1917	1921			4

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[1] Still in the Service, 1954.

STATE INSPECTION SERVICE—Concluded

Name of Inspectors	Date of Service		Reappointed and Served		Years of Service
	From	To	From	To	
Richard Neeson	1919	1924	Inspector-At-Large		5
Patrick Gillen	1924	1930	Inspector-At-Large		6
Thomas English	1930	1933	Inspector-At-Large		3
Oscar Saunders	1939	1941	Inspector-At-Large		2
John Rancilio	1939	1941	Inspector-At-Large		2
Joe Harris	1941	1946	Inspector-At-Large		5
Elmer Edmonds	1941	1947	Inspector-At-Large		6
John D. McMillan	1946	1948	Inspector-At-Large		2
Murrell Reak	1947	1952	Inspector-At-Large		5
John J. Kotzman	1949	[1]	Inspector-At-Large		5
Ray McCluskey	1952	[1]	Inspector-At-Large		2

[1] Still in the Service, 1954.

Walton Rutledge, known as the father of the mining laws of Illinois, was born at Haswell, County of Durham, England, in 1835.

He began working in the coal mines of his native county at the age of 14 years and, after about one year, was transferred to the surveying division, working with the mine examiner a part of the time. He came to the United States in 1854, locating in the anthracite coal region, where he worked as a miner for two years. In 1856 he came to Illinois and settled at Alton. Here he worked in the mines until May, 1864, when he enlisted in Company D, 133d Regiment, Illinois Infantry. Afterward, during this year, he raised a company of volunteers which was mustered into the service as a part of the 144th Regiment, and served as first lieutenant to the close of the war.

At the close of the war, Mr. Rutledge returned to Alton and went to work in the mines. About this time he was chosen as secretary of the Miners' Benevolent Association and served for two years. He was elected county surveyor of St. Clair County in 1874 and held that office for ten years.

Mr. Rutledge was active in securing a clause in the Constitution providing for mining legislation, and later served on committees of miners to formulate a mining law for the State. He was finally successful, and the law of 1883 bears the impress of his knowledge and untiring zeal in behalf of the industry in which nearly his whole life was spent.

In 1883, after the new law became effective, Mr. Rutledge was appointed State inspector and served until 1893. He was again appointed in 1897, serving until 1913, when he retired to private life. He quietly passed away at his home in Alton, June 17, 1922.

During the 70 years' history of the mine inspection service, one inspector has lost his life while in the line of duty. This lamentable accident occurred April 3, 1905, at Zeigler.

The following obituary of the inspector is taken from the Annual Coal Report of 1905, page 342:

> "It becomes our sad duty to chronicle the death of William Atkinson, late State inspector of mines for the Seventh Mine Inspection District. Of the dangers to which this class of State servants are exposed, he was the first to lose his life while engaged in the performance of his duty. It was nearly noon, April 3, 1905, when he learned that the coal mine at Zeigler, Illinois, had been wrecked by a great gas explosion and that everyone in the mine had been killed. Hurrying to the place of the disaster, he descended the mine in company with a few other brave men, for the purpose of recovering the dead bodies, and to rescue those whom they hoped might yet be living. While engaged in this most commendable undertaking, he had, in his anxious search, stepped for a moment out of the line of the air current, was seized by the deadly after-damp, and died before his companions could reach him. Deceased was born February 2, 1848, at Alnwick, England, and came to this country in 1862. Shortly after reaching New York he enlisted in the Union Army, joining Company K, New York Volunteer Infantry, and served with distinction until the close of the war. His honorable discharge bears the date of July 18, 1865.
>
> "After the close of the war he located at Murphysboro, Illinois, where he continued to reside. He was married to Zerilda Kilgore, at Harrisburg, Illinois, February 16, 1876. Of this union nine children were born, but three of whom are living. Mr. Atkinson was appointed July 1, 1901, by Governor Yates as a member of the State Board of Mine Examiners. He continued to serve in that capacity until July, 1904, when he succeeded Evan D. John as State inspector of mines for the Seventh District. Prior to his connection with the State service he had served as mine manager for several coal companies in the southern part of the State. While deprived in early youth of the advantages of an education, he possessed a bright observing mind and accumulated a considerable store of information on a variety of subjects. Aside from his experience in the army, before coming to this country, he followed the occupation of a British sailor and, in the line of that employment, had visited nearly every port in the world. His extensive travels gave him an intimate knowledge of human affairs and quickened his judgment of men. His was the positive type of character, combined with deep sympathy and most generous impulses. His disposition was extremely kind and he was never so happy as when performing a service for others. He was a member of several secret societies, and was buried with Masonic honors at Murphysboro, April 7, 1905. Those who enjoyed his acquaintance will long remember him for his many loving qualities of head and heart."

The office of State mine inspector is a very important one and carries with it great responsibilities. The law since requires that he inspect every mine in his district at least once in every month, and oftener if necessary. It requires that he shall investigate and ascertain the cause of every fatal and serious accident occurring in or about the mines and report his findings to the Department of Mines and Minerals. It requires him to recommend to the management the change or abrogation of any conditions detrimental to the health and safety of the employes and that the mines be kept in as safe and sanitary condition as possible.

Meetings are held two or three times a year with the State Mining Board, which the inspectors attend and at which they discuss the problems they encounter in the performance of their duties and the best way to solve them. Without question, much good is derived from these meetings and the service greatly benefitted.

Chapter VII

MINERS' EXAMINING BOARD

Law Creating, History, Work Accomplished

The first law requiring the examination of coal miners as to their qualifications as such, was passed at a special session of the Legislature in 1908. This law provided that, "In all counties of this State where the business of coal mining is carried on, a board should be created, to be styled the 'Miners' Examining Board,' consisting of three miners appointed by the circuit judge of the judicial district in which such county shall lie."

It was the duty of this board to hold meetings in their respective counties and examine all applicants as to their qualification as coal miners and issue certificates of competency to those passing the required test.

The law prohibited the employment of anyone as a miner without first having obtained a certificate of competency so to do from the said board, except, that persons who had been employed at least two years in the mines of this State should be entitled to a certificate permitting them to work in the mines as practical miners; also, persons were permitted to be employed to work with, or under the directions of, a miner having such certificate, for the purpose of becoming qualified to receive a certificate.

Each applicant for examination was required to pay a fee of $1.00. Each member of the board was to receive the sum of $3.50 per day for his services, together with the necessary expenses incurred in the discharge of his duties. The salary and expenses were to be paid out of the examination fees.

The law of 1909 amended the foregoing by providing that the board should be appointed by the county judge of the county where the law was applicable, and limited the number of apprentices allowed to each certificated miner to one.

The law as a whole was not satisfactory to those engaged in the industry, and in 1913 was repealed by the enactment of a new law providing for the appointment by the Governor, by and with the advice and consent of the Senate, of three persons as "Miners' Examining Commissioners, who shall constitute the Miners' Examining Board." Each member of the commission, before taking office, was to be sworn and enter into bond of $5,000 for the faithful performance of his duties. As a prerequisite to appointment, the applicant must have had five years' experience in mining, one year of which must have been continuous in Illinois. The salary of each member was fixed at $1,500.00 per year, payable monthly out of the State treasury.

The law provided for an examination to be held once in each calendar month in at least twelve places in the coal fields of the State, and that all examinations should be in the English language. Each applicant for a certificate of competency was required to pay a fee of $2.00, and to have had at least two years' experience as a miner or with a miner.

In 1915 the law was amended, permitting, until July 1, 1916, the exchange, without cost, of a certificate issued by any board of county mine examiners for a certificate issued by the State board, and after July 1, 1916, no certificate issued by any board other than the State board should be recognized.

The first board under the law of 1913 was appointed by Governor Dunne, soon after the Act became effective, and consisted of Edward Maher of Lincoln, John Knies of Breese and Nicholas Cowell of Springfield. In 1916, C. C. Humphrey of Herrin was appointed to succeed Mr. Cowell and served until July 1, 1917.

The report of this board for the eight months from July 1, 1913 to March 1, 1914, shows that 80 examinations were held and that 4,289 men applied for certificates. Of this number 632 were rejected for various reasons, chief of which was that they could not speak English, there being 379 rejections for this cause.

The second report of this board covers the fiscal year, March 1, 1914—February 28, 1915, and shows that 144 examinations were held, 8,069 applicants examined, of which 5,615 received certificates and 2,454 rejected. Those rejected because they could not speak English numbered 639, and for not having the required experience, 1,296. The remainder of the rejections was for insufficient knowledge of the State mining law, 334; not knowing the name of the company for which they had previously worked, 183; non-payment of fees, two.

The third annual report, March 1, 1915—February 29, 1916, gives the number of examinations held, 144; number of applicants examined, 6,389; certificates issued, 4,310; number rejected, 2,079. The reasons for rejecting the 2,079 applicants are classified as follows:

Did not know the mining law	205
Lack of experience	1,567
Ignorance of English language	296
Did not know the name of the company formerly worked for	11

The fourth annual report shows 144 examinations and 9,213 applicants. Of this number, 1,397 were rejected for the reasons given below:

Lack of knowledge of the law	113
Lack of experience	1,020

Lack of English	254
Did not know the name of the company where they had previously worked	10

The board issued certificates to 56,277 miners in exchange for certificates formerly issued by county boards.

A summary of the work of the board from its creation to July 1, 1917, when its activities came under the jurisdiction of the Department of Mines and Minerals, may be seen in the following tabular statement:

Number of examinations held	512
Number of applicants examined	27,960
Number of certificates issued	21,398
Number of applicants rejected	6,562
Amount of fees collected	$42,796.00
Certificates exchanged	56,277
Total number of certificates	77,675

The reasons for the rejection of the 6,562 applicants are as follows:

Ignorance of the mining law	714
Lack of experience	4,047
Could not speak English	1,568
Could not give name of former employer	229
Refused to pay examination fee	4

The fact that ignorance of the law and of the English language and lack of experience in the work accounts for all but 233 of the rejections and that those rejected for these causes amounts to more than 22% of the total number applying, speaks well for the wisdom of the law and the faithfulness of its execution.

The elimination of incompetent and ignorant workmen has enhanced the safety of the men in the mines by removing, to some extent at least, the potential cause of accidents.

The Civil Administrative Code, which became effective July 1, 1917, placed the Miners' Examining Board under the jurisdiction of the Department of Mines and Minerals and Governor Lowden appointed the following named gentlemen as members: William Hall, Springfield; Joseph C. Viano, Coal City; John A. Tuttle, Harrisburg, and W. H. Turner, Collinsville.

In 1920, Mr. Tuttle resigned and was succeeded by William Hogan of Zeigler. Mr. Turner died in March, 1921, and was succeeded by John Mulligan, of Decatur. In 1922, Governor Small appointed Robert Clem in place of William Hogan, resigned. March, 1924, Mr. Viano resigned and was succeeded by Bernard Murphy of Pana. In January, 1928. Matt Kloever of Pana was appointed to succeed Mr. Murphy, deceased.

Early in 1930, Governor Emmerson reorganized the board by appointing George Hall, Springfield; John Millett, Collinsville; Edward Donahue, West Frankfort; and John F. Oldani, Herrin.

From his appointment, July 1917 to 1930, Mr. William Hall was president and Mr. Tuttle acted as secretary till 1920, when he resigned and was succeeded in that office by Mr. Mulligan, who served until the reorganization of the board, when Mr. George Hall was elected president and Mr. Millett, secretary.

From July 1, 1917, to December 31, 1930, there have been 2,045 examinations held by the Miners' Examining Board, at which 94,290 applicants appeared. Of this number 77,443 received certificates and 16,847 were refused.

In 1939 the General Assembly amended the 1913 law creating the Miners' Examining Board, whereby the board would consist of the State mine inspector and 28 coal miners appointed by the Governor. Under this amendment, terms of appointed members shall be two years and two members are appointed from each inspection district.

In 1941 an amendment provided that the Miners' Examining Board be composed of four persons who would be appointed by the Director of Mines and Minerals, with the consent of the Governor.

Legislation in 1943 provided for two classes for which a certificate of competency shall be issued or given to persons under this Act:

(1) A first class certificate of competency shall be issued or given to any person who can produce evidence of having not less than two years of practical experience as a miner or with a miner.

(2) A second class certificate of competency shall be issued or given to any person who can produce evidence of having had not less than two years of practical experience at various jobs in and around the face in mechanical loading mines.

In 1943 an Act was amended to increase the compensation of the Miners' Examining Board of Commissioners from $1,710 to $2,100 per year and expenses allowable to such commissioners from $1,200 to $1,500 per annum for any one commissioner.

In 1947 the General Assembly amended the Miners' Examining Board Act to provide that a first class certificate of competency be issued to any holder of a second class certificate of competency under this Act, who can produce evidence that he has worked one additional year at or around the face while holding a second class certificate of competency and that he has devoted at least six months of such year to drilling holes and preparing shots under the direct supervision of a miner having a first class certificate.

In 1953 the 1913 law was amended so that, effective July 1, 1953, each applicant for the certificate of competency shall receive his certificate upon satisfactorily passing the examination, without the payment of fees, except that a fee of $2.00 shall be paid to the Department of Mines and Minerals for additional copies of certificates.

From January 1, 1931, to December 31, 1953, the Miners' Examining Board has held 3,453 examinations, at which 39,662 applicants appeared and received certificates of competency. The amount of fees collected by the Miners' Examining Board in these 23 years was $79,140.00.

In the 1917-1954 list following will be found the names, dates of service, and years of service, of each of the thirty men who have held the position of Miners' Examining Board Member.

Name of Board Member	Address	Date of Service		Reappointed and Served		Years of Service
		From	To	From	To	
William Hall	Springfield	1917	1930			13
Joseph C. Viano	Coal City	1917	1924			7
John A. Tuttle	Harrisburg	1917	1920			3
W. H. Turner	Collinsville	1917	1921			4
William Hogan	Zeigler	1920	1922			2
John Mulligan	Decatur	1921	1930			9
Robert Clem	Herrin	1922	1930			8
Bernard Murphy	Pana	1924	1928			4
Matt Kloever, Jr	Pana	1928	1930			2
George Hall	Springfield	1930	1934			4
John Millett	Collinsville	1930	1934			4
Edward Donahue	West Frankfort	1930	1934			4
John V. Oldani	Herrin	1930	1934	1953	[1]	5
Edward Maher	Lincoln	1934	1941			7
Stanley B. Ingerski	Minonk	1934	1941			7
John Rancilio	Herrin	1934	1941			7
John B. Schmacker	Collinsville	1934	1941			7
Jack Knowles	West Frankfort	1941	1943			2
Joseph Turner	East St. Louis	1941	1949			8
Joseph J. Boetta	Gillespie	1941	1949	1953	[1]	9
Lloyd Owens	Orchard Mines	1941	1949			8
Richard McAllister	DuQuoin	1943	1949			6
A. C. Willis	West Frankfort	1949	1953			4
James Campbell	Gillespie	1949	1953			4
Charles M. Dabney	Harrisburg	1949	1953			4
James Donovan	Beckemeyer	1949	1950			1
Lawrence Kain	Kincaid	1950	1951			1
Dennis Bennett	Danville	1951	1953			2
Donald T. Vinyard	Eldorado	1953	[1]			1
Claud Brown	Eldorado	1953	[1]			1

[1] Still in Service.

Chapter VIII

MINE RESCUE—ACCIDENT PREVENTION—LABORATORY

Legislation Creating Commission, Organization, Rescue Stations, Changes in Personnel, Work Done

Early in the present century, some foresighted men connected with the coal industry, realizing the hazards to which the underground toiler is subject, and the frequency of disasters in the mines, began agitating the question of establishing a mine rescue unit at the University of Illinois. This agitation, through the influence of the Federal Bureau of Mines and the Geological Department of the university, gained some headway, but it was not until after the Cherry disaster that public sentiment was aroused to the necessity of a law on the subject.

The Cherry disaster gave the opportunity to take advantage of the sentiment and the miners' organization and operators' associations of the State were brought into agreement to support the bill, which was enacted into law at the next session of the Legislature.

Prominent in the promotion of this legislation were:

H. H. Stoek,
Frank De Wolf,
Richard Newsam,
R. Y. Williams,
Lee Kinkaid,
Thomas Moses

and the two organizations mentioned above.

So responsive was the Legislature to public sentiment that, in January, 1910, Senate Bill No. 42 was introduced, passed both Houses, and was approved by the Governor March 4th. The fact that a bill was passed and approved before all the bodies had been recovered, shows the effect of that terrible disaster upon the minds of our people and the responsiveness of our Legislature to public opinion.

This law provided for the establishment of three rescue stations to serve the northern, central and southern coal fields of the State and authorized the Governor to appoint a commission consisting of seven members to carry out the provisions of the Act.

The commission was empowered to appoint a manager for the three stations, who, with the advice and consent of the said commission, was authorized to appoint a superintendent and an assistant for each station.

The rescue stations are intended to serve two distinct purposes.

First—To furnish a trained rescue corps of men to assist at a mine in case of an accident.

Second—To train men in the use of rescue appliances, so that ultimately there shall be at every mine in Illinois a corps of men who can enter a mine with a suitable rescue outfit.

In July, 1910, Governor Deneen appointed as members of the commission the following:

Representing the United Mine Workers of Illinois:
  Charles Bennett, LaSalle,
  Charles Krallman, Glen Carbon.

Representing the mine operators:
  John L. Schmidgell, Murphysboro,
  J. W. Miller, Gillespie.

Representing the mine inspectors:
  Hector McAllister, Streator.

Representing the Federal Bureau of Mines:
  J. A. Holmes, Washington, D. C.

Representing the Mining Department of the University of Illinois:
  Prof. H. H. Stoek, Urbana.

On August 2, 1910, the commission met in Springfield and effected an organization by electing J. A. Holmes, chairman, Hector McAllister, vice chairman, and H. H. Stoek, secretary.

September 12, 1910, Richard Newsam was elected manager of the rescue stations, and it was decided that the stations should be erected at the following places:

LaSalle for the northern,
Springfield for the central,
Benton for the southern part of the State.

The popularity of the law creating the Mine Rescue Commission and providing for the mine rescue stations is attested by the fact that, in each instance, the site for the station was donated by the city or by citizens representing the city.

In order to secure suitable men for appointment as superintendents and assistants at the three rescue stations, as provided by the Act creating the commission, two public examinations were held in Springfield by Mr. Newsam, manager of the stations.

The manager, with the sanction of the commission, adopted a rule that only those holding an Illinois certificate as mine manager would be eligible for appointment as superintendent of a rescue station, and only those holding an Illinois certificate as mine manager or mine examiner would be eligible to appointment as assistant.

As a result of the examinations, nine men were sent to Urbana, where they were given a preliminary training in the use of oxygen helmets and other rescue apparatus in order to find out if they were suited for rescue work. After taking these preliminary theoretical and practical tests, the manager recommended for appointment, which was made by the commission, on September 26, the following:

LaSalle Station:
    Superintendent, Thomas English, of Streator,
    Assistant, Peter Donnelly, of Streator.

Springfield Station:
    Superintendent, G. H. Walmsley, of Peoria,
    Assistant, Charles Swan, of Danville.

Benton Station:
    Superintendent, J. C. Duncan, of Murphysboro,
    Assistant, Frank Rosbottom, of Peoria.

These men were then given a two weeks course of lectures and rigorous training in rescue methods at Urbana and sent to the testing station of the U. S. Bureau of Mines at Pittsburgh, Pa., where they were given further training in rescue and first-aid methods and lectures by experts connected with the Pittsburgh station. After spending a week in Pittsburgh, the men returned to Urbana and were given additional training in first-aid to the injured by Dr. M. J. Shields, in charge of the first-aid work of the National Red Cross Society.

While the buildings were being erected, temporary stations were established that rescue equipment might be available in case of accident, and mine rescue cars were provided for.

The Springfield Station was opened in January, 1911, and within four months from that time the other stations were ready.

The following description of the buildings is taken from the report of the commission December 31, 1910:

Description of the Station Building

The station buildings are practically identical in design and construction, and the following description of the Springfield Station, will serve also for the other two stations.

The foundations are all of solid concrete, finished smooth on the inside wherever the surface is exposed. The walls of the building are of timber covered on the outside with metal lath coated with two coats of plaster throughout. The extreme dimensions are 61 feet 6 inches in width and 87 feet in depth. The height to the peak of the roof is 29 feet 6 inches.

The front part of the building contains two floors and is divided into the living apartments, office and workshop. The rear portion is one story in height, and contains the rescue chamber.

The basement contains a store room, coal room and furnace room and has a concrete floor and finished concrete walls throughout.

On the first floor at the left of the entrance is the office of the superintendent, in which is a large closet for the storage of maps. Back of the office is a hallway leading to the dining room, which also serves as a general living room. Off this hall is a closet and toilet. Back of the dining room is the kitchen, off which is a commodious pantry and a rear entrance. Back of the front entrance porch a hallway leads to the rescue chamber and on the right is an entrance to an equipment room, which will probably be divided into two parts, one for the storing of equipment and the other will be fitted up as a workshop.

The rescue training chamber and lecture hall occupy the rear of the first floor. The lecture or observation hall is a room 30 feet by 57 feet lighted from above by skylights, but it can be darkened, when desired, by curtains over the skylights. The sides of the lecture hall are of glass, thus giving a full view of the training gallery which surrounds the lecture hall on three sides. The lecture hall will seat comfortably about 100 persons, is well lighted and is provided with a special lighting switch so that a stereopticon can be used for lecture purposes.

The training gallery is an air-tight gas chamber in which sulphur can be burned and in which training with the helmets and other rescue apparatus will be carried on. The right side of the gallery is 8 feet wide and 10 feet 4 inches high, and in this part there will be placed a mine track and a mine car. In the rear an overcast can be constructed, if desired. The left side of the gallery is 6 feet wide and is divided into two parts, one of which is 5 feet 2 inches in height and the other 4 feet 7 inches in height. This division allows work to be carried on in restricted quarters and the upper part can also serve as an overcast. There is a toilet at one end of the rescue chamber.

The second floor contains a dormitory, in which there are twelve white enameled iron beds. A commodious toilet room is fitted with lockers, shower baths, wash bowls and other toilet facilities. There is also a bath room. Three rooms are available for bedrooms for the family of the superintendent, or for other purposes, if they are not so needed. A commodious linen closet and an attic over the front part of the building and over the rescue chamber give ample storage facilities.

The building is well lighted with electricity and thoroughly ventilated by means of numerous well placed windows. It is finished throughout in natural wood stained a dark burnished gray color and presents an excellent appearance.

The three rescue cars were put in commission in March, 1911. Two of these cars, completely furnished and equipped, were donated to the State by the Chicago, Milwaukee and St. Paul Railroad Company and the Northwestern Railroad Company.

In order to protect these cars, a suitable car-barn was built at each station.

In November, 1911, the three mine rescue cars began their tour of the mining towns of the State to give free instructions in helmet work and first-aid to the injured. These cars were in charge of two assistants, and at each place visited, one assistant would give training with the breathing apparatus, while the other one carried on the training in first-aid to the injured. This work usually lasted two weeks at each place, and was sufficient, in most cases, to enable the student to pass the tests and secure a certificate. However, in order to secure the final certificate for helmet work, further training with the breathing apparatus had to be taken at one of the stations.

In 1911 was begun the work of giving free instructions in helmet work and first-aid to the injured. The commission encouraged first-aid contests, the purchase by coal companies of rescue apparatus and the organization at the mines of first-aid and rescue teams. Soon First-Aid and Rescue Associations were formed for the training of men in several districts of the State.

December 10, 1912, the first competitive contest was held and was participated in by four teams.

October 4, 1910, Mr. J. W. Miller, a member of the commission, died, and in November, 1911, W. W. Taylor was appointed to fill the vacancy. Mr. Taylor died December 29, and Thomas Moses was appointed as his successor, December 13, 1912. Mr. Moses resigned February 17, 1913. December 1, 1912, Mr. Krollman resigned.

On August 5, 1912, Mr. Richard Newsam, who had served so efficiently as manager of the rescue stations, sent in his resignation because of ill health. The commission accepted his resignation in the following letter:

"Springfield, August 12, 1912.

"Dear Mr. Newsam:

At a meeting of the commission held in Springfield, August 8th, your letter of August 5th, containing the resignation as manager of the Mine Rescue Stations, was presented for consideration.

In accepting this resignation, the commission wishes to express to you its sincere regret that the condition of your health makes this action necessary, and the hope that you may enjoy a well earned rest after many years of activity.

The commission also wishes to express its appreciation of the efforts you have put forth in behalf of the rescue work in the State of Illinois.

As members of the commission, we will always be proud of sharing with you the honor of having had charge of establishment in Illinois of a State rescue service, which is not only the pioneer service of this kind in the United States, but we believe it marks a departure in connection with mining in the United States that will be of great permanent benefit to the coal miners and the coal mining industry.

With best wishes from all the commission, I remain

Cordially yours,

(Signed) H. H. Stoek, *Secretary*."

The amendment to the Civil Service Act, effective July 1, 1911, placed all employes of the commission under civil service rules. It therefore became necessary to hold an examination for the position of manager to succeed Mr. Newsam. Consequently, an examination was called to be held in Springfield October 3, 1911. Mr. Oscar Cartlidge, State mine inspector of Marion, was the successful candidate for the position and entered upon the discharge of his duties November 1.

In 1912 the organization of the commission was as follows:

Hector McAllister, chairman,
J. L. Schmidgall, vice chairman,
H. H. Stoek, secretary.

Station Staff

Oscar Cartlidge, manager,

LaSalle Station:
James Towal, superintendent,
W. J. McMillan, assistant.

Springfield Station:
Thomas English, superintendent.

Benton Station:
J. C. Duncan, superintendent,
George T. Smith, assistant.

In 1913, Governor Dunne reorganized the commission by appointing the following:

Representing the State inspectors:
Thomas H. Devlin, Assumption.

Representing the miners:
Fernand Bernard, Westville,
John Slatterly, Toluca.

Representing the operators:
Stephen Wolschlag, Peoria,
Thomas Jeremiah, Willisville.

Representing the Department of Mine Engineering:
H. H. Stoek, Urbana.

Representing the Federal Bureau of Mines:
J. A. Holmes, Washington, D. C.

Mr. Wolschlag died March 16, 1914, and George H. Deemy, of Peoria, was appointed to fill the vacancy.

The organization of the commission was effected by electing Thomas H. Devlin, chairman, H. H. Stoek, secretary, and Fernand Bernard, assistant secretary.

Station Staff

Oscar Cartlidge, manager,

LaSalle Station:
  Alexander Jones, superintendent,
  W. J. McMillan, assistant.

Springfield Station:
  Thomas English, superintendent,
  George T. Smith, assistant.

Benton Station:
  James Towal, superintendent,
  M. J. Carraher, assistant.

In 1914, George T. Smith, assistant at Benton, was transferred to Springfield, and J. W. Maitland of Herrin appointed to the vacancy, but soon resigned, and George L. Morgan was appointed to the position. Mr. Morgan resigned to become State inspector and M. J. Carraher succeeded him.

Alexander Jones resigned in 1915 from LaSalle Station and was succeeded by Thomas Rogers, and Thomas Lawless of Springfield was appointed assistant at this station to succeed W. J. McMillan, resigned.

August, 1915, Dr. Joseph A. Holmes, member of the commission representing the Federal Bureau of Mines, died, and Governor Dunne appointed Van H. Manning of Washington, D. C., as his successor.

Following out the idea of having more and better trained men, substations were established in 1914 at Herrin, Harrisburg and DuQuoin, in co-operation with the operators and miners at these places. A complete set of rules to govern team training and a plan for keeping a complete record of this training work was approved by the commission and ordered put into effect. These sub-stations became regular stations in a short time and the one at Harrisburg removed to Eldorado.

Prior to January 1, 1915, certificates had been given to miners on the completion of a course of six lessons in helmet work and passing the test. Experience had demonstrated that this was not sufficient to insure competent and efficient apparatus wearers and the course was lengthened to twelve lessons.

During this time the three mine rescue cars had been traversing the State giving instructions in this work. But, the commission came to the conclusion that, for various reasons, the project was not achieving its purpose, viz: the permanent organization of local first-aid teams and mine rescue corps, and therefore called in the three cars, and arranged for instructions to be given by instructors who could cover their itinerary more rapidly by regular train.

Realizing that the highest degree of efficiency possible in mine rescue methods can be attained only when each locality has its team of trained miners, the commission, in November, 1915, directed the superintendent of each of the sub-stations to select a team of five miners, who should practice mine rescue work not less than two hours each week, and to be paid for such work by the State.

The position of Mine Rescue Station manager was declared vacant by Governor Dunne, April 1, 1915, on the recommendation of the commission.

At the close of 1916 there were six teams consisting of five men each, who were well trained in the most approved methods of mine rescue work and ready on call to respond to appeals for help anywhere in the State.

Demonstrations of first-aid and rescue methods were given in different parts of the coal field, participated in competitively by the teams from the various stations.

Several national contests have been held in which Illinois teams were leading contenders, gaining first prize in some and acquitting themselves creditably in all.

The commission from the first encouraged first-aid contests, the purchase by individual companies of rescue apparatus, and the organization of first-aid and rescue teams. As a result of this advice and encouragement, there were formed within three years after the organization of the commission, First-Aid and Rescue Associations in many parts of the State.

By the close of the year 1916, the work fostered by the Mine Rescue Commission was well organized. A team of six men, trained in the most approved methods of mine rescue and first-aid to the injured, at each station, was ready on call to respond to appeals for help. Many other teams were organized and maintained by companies in different parts of the coal field. Interest in the work was kept to a high degree by competitive contests shared in by the mine management and general public.

By the law of 1917 the Mine Rescue Commission was abolished, the stations and the administration of the law placed under the jurisdiction of the Department of Mines and Minerals, and called the Division of Mine Rescue and First-Aid. The superintendents of the various stations were then appointed as follows:

Thomas Rogers, LaSalle,
Thomas English, Springfield,
James Towal, Benton,
James Weir, Herrin,

James Robertson, DuQuoin,
Alex Skelton, Harrisburg.

During the next year transfers were made and the station superintendents were as follows:

LaSalle, Alex Skelton,
Springfield, Thomas English,
Benton, James Weir,
Herrin, Thomas Rogers,
DuQuoin, James Robertson,
Harrisburg, James McNabb.

In 1919 Frank Patterson was appointed superintendent at Harrisburg Station in place of James McNabb, resigned. Thomas English resigned the superintendency of the Springfield Station in 1920 and James Clusker was appointed to this position. In 1922, the Harrisburg Station was removed to Eldorado.

The Fifty-fifth General Assembly, in 1927, passed an Act directing the Department of Mines and Minerals to establish and maintain fire-fighting and mine rescue stations at Belleville and Johnston City. These stations were open and ready for service by the close of the year. Mr. Fred W. Gramlich was appointed superintendent at Belleville and Bland D. Stutsman placed in charge at Johnston City. Mr. Gramlich resigned the superintendency of Belleville Station and July 1, 1930, Mr. Ivan Grieve was appointed.

MINE RESCUE STATIONS

In 1939 the General Assembly repealed an Act of July 6, 1927, creating a mine rescue station at Johnston City, Illinois, and directed the Department of Mines and Minerals to establish and maintain a fire fighting and mine rescue station with necessary equipment, material and attendants at Benld, Illinois. Also, the Eldorado Station was moved to Harrisburg, Illinois, but was returned to Eldorado in 1941.

In 1943 the LaSalle Mine Rescue Station was moved to Peru, and in 1948 this station was abolished.

An amendment in 1947 specified that, in addition to the mine rescue stations in operation, the Department of Mines and Minerals shall construct, equip and maintain in the coal fields of this State, three mobile rescue units.

The first mobile unit was stationed at Springfield, and the others at DuQuoin and Benton.

In 1949 the Act was amended so as to extend fire fighting and rescue station facilities by adding another mobile mine rescue unit. This mine rescue mobile unit was housed at the Eldorado Rescue Station in Eldorado, Illinois.

The present seven mine rescue stations are located in Springfield, Benld, Benton, DuQuoin, Eldorado, Herrin and Belleville, from which points the interests of the coal mining industry can best be served.

The mobile units are constantly ready to answer emergency calls, and each is equipped with sufficient mine rescue apparatus for five rescue crews.

The Department has learned through experience that the mobile units make it possible for our rescue crews to answer emergency calls with much greater efficiency and speed than formerly. Improved highways, of course, are also an important factor.

Each mine rescue station has a superintendent and a six-man rescue team composed of nearby miners ready for call 24 hours a day. The stations having mobile mine rescue units also have assistant superintendents.

The training of men in mine rescue methods and of women, boys and girls in the most scientific way of administering first-aid to the injured is carried on at all stations. Enthusiasm in this work seems to be increasing from year to year. Teams are kept in training and ready to respond on call, day or night, anywhere in the State where help is needed. Assistance is not confined to coal mines, but is cheerfully rendered to individuals in any and all cases.

In addition to training at the stations, the superintendents and competent instructors will go anywhere in the State where a class of at least twelve ask for it and train teams in helmet work and first-aid. This plan affords opportunity for a great number to receive instruction which otherwise they could not get. This Department is making every possible effort, in cooperation with the parties at interest, to bring about the ideal condition, when every mining locality has its team of trained miners familiar with the inside workings of the mines. In this way only can the highest possible degree of efficiency in mine rescue methods be attained.

The number trained in rescue work and administering first-aid, from 1911 to December 31, 1953, was 127,468. This includes women and boys and girls who took first-aid training only.

During the time the stations have maintained these trained teams, to the end of 1953, calls for assistance have been responded to for the classes of service shown below:

Mine fires and explosions	276
Exploring work	21
Opening seals	72
Miscellaneous (including individual calls)	337

The list following gives the name and date of appointment of the men who have held the position of mine rescue superintendent from 1931 to 1954.

Year Appointed	Superintendent	Station
1931	Walter Anderson .... Benton	
1933	Ray Williams .... Benton	
1933	Michael Taggart .... Eldorado	
1933	Joseph Morris .... DuQuoin	
1933	Arthur Bradbury .... Belleville	
1933	Houston W. Webb .... Johnston City	1938 Transferred to Benton Station
1934	Larry McGonigal .... LaSalle	
1934	Leo Chitty .... Herrin	1935 Transferred to Springfield Station
1935	Barney McSherry .... Herrin	
1936	Peter H. Proctor .... LaSalle	
1939	Lloyd Duncan .... Harrisburg	Eldorado Station moved to Harrisburg. Johnston City Station abolished
1940	Edward S. Wright .... Belleville	
1940	Walter Anderson .... Benton	Reappointed
1940	William J. Williams .... Springfield	
1940	John Taylor .... Eldorado	Harrisburg Station moved to Eldorado
1940	Pete Fisher .... Benld	
1940	Charles Meyers .... DuQuoin	
1940	Edward Lettsome .... LaSalle	
1941	John Rushing .... Herrin	
1942	Alex Skelton .... LaSalle	Reappointed
1943	....	LaSalle Station moved to Peru
1947	Donald Vinyard .... Eldorado	
1948	Edmund Grezlak .... Benton	
1948	Cerillo S. Tarter .... Benld	
1948	William McCollum .... DuQuoin	
1948	James M. Hooper .... Eldorado	
1948	Harry Carney .... Herrin	
1948	....	Peru Station abolished
1950	Wathen Browning .... Benton	
1952	Ben Davison .... DuQuoin	
1952	Emlyn Thomas .... Benld	
1952	Bennie Gibbs .... Eldorado	
1952	Arch Ivy .... Herrin	
1953	Howard Williams .... Benton	

The list following gives the number of persons trained annually in first-aid and in mine rescue from 1931 to 1954.

Number of people trained in first-aid and mine rescue

Year	Mine Rescue	First Aid	Total
1931	175	3,347	3,522
1932	166	1,845	2,011
1933	169	1,001	1,170
1934	387	5,930	6,317
1935	219	7,268	7,487
1936	256	3,844	4,100
1937	351	7,730	8,081
1938	314	7,019	7,333
1939	353	5,584	5,937
1940	337	7,128	7,465
1941	122	3,758	3,880
1942	150	6,193	6,343
1943	128	2,069	2,197
1944	126	1,353	1,479
1945	200	1,018	1,218
1946	124	783	907
1947	298	993	1,291
1948	629	815	1,444
1949	355	1,006	1,361
1950	417	759	1,176
1951	306	801	1,107
1953	251	686	937
1952	105	220	325
Sub Total	5,938	71,150	77,088
1911-1930 Total	----------	----------	50,380
GRAND TOTAL	5,938	71,150	127,468

The list following gives the number of activities per year for all mine rescue stations from 1931 to 1954.

ACTIVITIES OF MINE RESCUE STATIONS

Year	Mine Fires and Explosions	Exploring Work	Opening Seals	Miscellaneous (including Individual Calls)	Total
1931	3		1	14	18
1932	7			9	16
1933	2		2	10	14
1934	1			16	17
1935		1	2	13	16
1936	11		5	82	98
1937	2			12	14
1938	3			15	18
1939	5			14	19
1940	4	1	2	11	18
1941	5			8	13
1942	12			22	34
1943	5			13	18
1944	8			7	15
1945	6			8	14
1946	5		3	15	23
1947	3			6	9
1948	9			5	14
1949	4			10	14
1950				3	3
1951	9			3	12
1952	3			1	4
1953	2			1	3
Total	109	2	15	298	424
1911-1930	167	19	57	39	282
GRAND TOTAL	276	21	72	337	706

ACCIDENT PREVENTION TRAINING PROGRAM

First aid and mine rescue training for regional and prize-giving contests was begun immediately following the establishment of mine rescue in 1910. Field contests were held in Peoria and other coal mining centers, beginning in those early years, and much training of first aid and mine rescue teams resulted. Their progress encouraged a greater field for those instructions and eventually the requirement of candidates for State certificates in the various coal mine jobs to hold the State's first aid certificates and some of them the mine rescue certificates also.

More than twenty-five years ago, under the direction of A. D. Lewis, Director of the Department of Mines and Minerals, and Charles A. Herbert, U. S. Bureau of Mines chief of their district including Illinois, first aid training was made available to all employed in the State's coal mine industry. It was well organized, the State's and bureau's instructors first training groups of miners and bosses for additional instructors. Then classes were formed for the instruction of all. To avoid congestion the men were assigned their term for classes.

Many mines achieved 100% success. Several of the largest coal companies, operating many mines each, achieved the first aid training to all of their employees. Several men took the mine rescue course following that period of instruction.

Since then the enthusiasm, State wide, has fluctuated until in 1950 the Illinois Department of Mines and Minerals assigned a State mine inspector on a full time basis to assist the U. S. Bureau of Mines instructors in the conducting of classes in accident prevention. During that year, 313 miners and 228 mine officials completed the course and many others received partial training.

The following year, 342 miners completed this training and 49 had partial training. The reason for the drop in trainees was because of the time spent in giving struction and practice to first aid and mine rescue teams who were being trained for the National Mine Rescue Team contest that was to be held that year, 1951.

In the year of 1952, due to the lack of personnel, the activities for accident prevention were more or less limited and only 200 miners were given this training. The figures quoted include only those persons in whose training representatives of the Department of Mines and Minerals took an active part. They do not include the number trained by the U. S. Bureau of Mines instructors during 1950 to 1954.

During the year 1953 the Department of Mines and Minerals increased their participation in the accident prevention training program by the assignment of several members of the inspection and mine rescue force to do this work. Also, a program of 100% training for all employees at the mines was initiated and completed.

The first mine to be trained 100% under the program was the Green Diamond mine of the Mid-Continent Coal Corporation, St. Clair County, in 1953, and the second was the Peabody Coal Company Mine No. 10, Christian County, in 1954.

Up to the year 1954, the State Department of Mines and Minerals had been using the text of the U. S. Bureau of Mines for accident prevention for coal mines, both in classes conducted jointly with the bureau and those conducted by State instructors alone. This course consisted of ten lessons of two hours duration each, a rather lengthy course. However, the Department, after due consideration, formulated a text for the course that consisted of eight lessons of one hour each. This shorter course has met with the unanimous approval of the miners who have taken it.

Several State mine inspectors and mine rescue superintendents have been assigned their full working time to accident prevention instruction and all inspectors are giving all the assistance they can to further the safety cause. In 1954, 1,286 men were trained in accident prevention. This shows a vast annual increase over the last few years.

The result of first aid work cannot be too highly commended. It not only furnishes trained men, immediately available for rescue work after accidents, but the treatment given the injured prevents unnecessary pain, weakness from loss of blood, wound infection, stiff joints, and sometimes prevents death. It gives stronger patients to the doctors in hospitals and homes, and insures a more rapid recovery. It is also a prevention of accidents, as the training given the men tends to make them more careful in their daily work, not only to themselves, but to their fellow workmen. These facts are recognized by the coal companies, who have expended considerable money in equipping rooms for first aid practice in the vicinity of their mines.

The accident prevention course that is being taught by the Department is very flexible and can be made to conform to the existing working shift conditions at any coal mine in the State. All types of accidents are studied.

Hazards of falls of rib, face and roof, and their prevention, are very thoroughly discussed. The low accident rate in Illinois mines reflects the results.

Haulage hazards in track and trackless mines are thoroughly discussed.

The hazards of mine fires and explosions and the details of prevention are stressed. The miners are taught the value of barricading in case of being caught underground by a mine fire or mine explosion. They are shown where and how to barricade for safety.

Accidents from blasting, whether from explosives, airdox or chemechol, are discussed and details of prevention are fully covered.

The dangers connected with electricity and some of the bad practices in numerous past accidents are discussed. The miners are shown how to prevent similar accidents.

Miscellaneous accidents, such as eye injuries, wrong lifting practices, flying objects and falling persons are fully explained.

Numerous demonstrations are used during the course by the use of coal dust explosion gallery, gas detecting devices and gas chambers for testing flame safety lamps.

Our goal is better safety records in the mines of our State and we believe that safety education is an important medium for achieving this goal.

ANALYTICAL LABORATORY

In 1947 a bill was passed whereby a laboratory should be established to analyze mine air and mine dust.

The Analytical Laboratory of the Department was established on the campus of the University of Illinois in January of 1948. At the time of the establishment, a study of the Federal Bureau of Mines Analytical Laboratory was made and the Department laboratory obtained the most modern equipment and adopted the methods of analyses similar to those used by the Bureau of Mines.

In June 1951 the Analytical Laboratory was moved from the University of Illinois campus to the Capital Airport located on North Walnut Street Road, Springfield, Illinois.

On the morning of December 10, 1953, at 3:30 a.m., the laboratory was completely destroyed by fire of unknown origin. The resulting loss to State-owned equipment was approximately $40,000.00. The laboratory was re-established on a temporary basis at the Mine Rescue Station, 609 Princeton Avenue, Springfield, Illinois. Analysis of samples was resumed on December 17, 1953.

The laboratory was re-established at 413 East Main Street, West Frankfort, Illinois, in the month of May 1954. The establishment of the laboratory at West Frankfort, Illinois, is a geographical move which will give quicker laboratory service to State mine inspectors and mine operators since the West Frankfort area is the center of the largest shaft coal-producing fields in the State.

The purpose of the laboratory is to analyze mine air samples for explosives and noxious gases and to determine oxygen content; also, to determine mesh and to analyze mine dust samples for the percentages of combustible and incombustible material, thus ascertaining whether or not the mine dust conditions comply with the mining law. These standards are as follows:

> Where rock dust is applied, it shall be distributed upon the top, floor and sides of all open places and maintained in such quantity that the incombustible content of the combined coal dust, rock dust and other dust will not be less than 65%. Where methane is present in any ventilating current, the 65% of incombustible content of such combined dust shall be increased 1% for each 0.1% of methane.
>
> All rock dust used shall meet the following specifications:
>
> 1. All of the dust shall pass through a 20 mesh sieve, and at least 70% shall pass through a 200 mesh sieve.
> 2. The dust shall not contain more than 5% combustible matter, nor more than 5% free silica. The rock dust should be as light in color as possible.

During the year 1953, there were 5,059 mine atmosphere samples and 4,951 coal dust samples analyzed. As of December 31, 1953, a total of 22,442 mine atmosphere and 20,212 dust samples have been analyzed since the laboratory was established.

Chapter IX

DIVISION OF ECONOMIC INVESTIGATION

The Civil Administrative Code, passed by the Fiftieth General Assembly, 1917, placed all matters relating to the mineral resources of the State under the Department of Mines and Minerals and conferred upon it the power and duty to inquire into the economic conditions affecting such resources.

Within six months after the Act became effective, a new division was created, known as the Division of Economic Investigation. Mr. James Taylor, of Peoria, was appointed investigator and served until July, 1921, when James E. Anderson, of Farmington, was appointed. Mr. Anderson served to December 1922, and was succeeded by W. L. Morgan, of Greenville.

The following table shows the date of appointment, name and address of the investigators, beginning with Mr. Morgan.

Year	Name	Address
1922	W. L. Morgan	Greenville
1933	James Reed	LaSalle
1941	Thomas S. English	Springfield
1942	Arthur C. Kengott	Chicago
1943	William Medill	Springfield
1943	Arthur Kengott	Chicago

In 1944, the Division of Economic Investigation was abolished, and its duties were subsequently handled directly by the Department of Mines and Minerals.

Also under the jurisdiction of the Department of Mines and Minerals, limestone, oil and gas, sand and gravel, shale and clay, and silica, are found in 93 counties of the State. Coal is found in 44 counties.

The magnitude of Illinois' mineral wealth is evidenced by the fact that, for a number of years, the State ranked sixth in petroleum production; fourth in limestone; fourth in clay products; fourth in coal and in sand and gravel; and first in fluorspar and in silica. Illinois is first in the Upper Mississippi Valley, seventh in the nation, and exceeds many nations of the world in mineral production. In the total value of mineral products, Illinois is surpassed by only six other states.

A list of the counties containing one or more of the mineral industries, including coal, is given here:

County	Industry
Adams	Limestone, sand and gravel, lime
Alexander	Sand and gravel, silica
Bond	Limestone, sand and gravel, oil
Boone	Limestone, sand and gravel, shale and clay
Brown	Clay
Bureau	Coal, sand and gravel
Calhoun	Limestone, gravel
Carroll	Sand and gravel
Cass	Sand and gravel
Champaign	Sand and gravel
Christian	Coal, oil
Clark	Limestone, oil and gas
Clay	Oil
Clinton	Coal, oil, stone, sand and gravel
Coles	Oil, stone, sand and gravel
Cook	Limestone, sand and gravel, shale and clay
Crawford	Oil, gas, sand and gravel
Cumberland	Oil, gas
Douglas	Coal
DuPage	Limestone, sand and gravel
Edgar	Coal, shale and clay, oil
Edwards	Shale and clay, oil
Fayette	Sand and gravel, shale and clay, oil
Franklin	Coal, oil
Fulton	Coal, shale and clay
Gallatin	Coal, oil
Greene	Limestone, shale and clay
Grundy	Coal, shale and clay
Hamilton	Shale and clay, oil
Hancock	Coal, oil, sand and gravel
Hardin	Fluorspar, limestone
Henderson	Sand and gravel
Henry	Coal, sand and gravel, shale and clay
Iroquois	Shale and clay, stone
Jackson	Coal, limestone, oil, gas, shale and clay
Jefferson	Coal, oil
Jersey	Limestone, shale and clay
JoDaviess	Lead, sand and gravel
Johnson	Coal, limestone
Kane	Limestone, sand and gravel, shale and clay
Kankakee	Coal, limestone, shale and clay
Kendall	Limestone, sand and gravel
Knox	Coal, shale and clay
Lake	Sand and gravel, shale and clay
LaSalle	Coal, limestone, sand and gravel, shale and clay, silica
Lawrence	Oil, gas, sand and gravel
Lee	Limestone, sand and gravel, shale and clay

County	Industry
Livingston	Coal, sand and gravel, shale and clay
Logan	Coal, sand and gravel
McDonough	Coal, oil, shale and clay
McHenry	Sand and gravel
McLean	Sand and gravel
Macon	Coal, sand and gravel, oil
Macoupin	Coal, shale and clay, oil
Madison	Coal, limestone, sand and gravel, shale and clay, oil
Marion	Coal, oil
Marshall	Sand and gravel, shale and clay
Massac	Sand and gravel
Menard	Coal, shale and clay, limestone
Mercer	Shale and clay, limestone and dolomite
Monroe	Limestone
Montgomery	Coal, shale and clay, oil
Morgan	Coal, shale and clay, oil
Ogle	Sand and gravel, silica
Peoria	Coal, sand and gravel, shale and clay
Perry	Coal, oil
Pike	Sand and gravel
Pope	Coal, limestone, sand and gravel, fluorspar
Pulaski	Sand and gravel
Putnam	Sand and gravel
Randolph	Coal, limestone, sand and gravel, oil
Richland	Oil and gas, sand and gravel
Rock Island	Limestone, sand and gravel
St. Clair	Coal, limestone, oil, sand and gravel, shale and clay
Saline	Coal, shale and clay, oil
Sangamon	Coal, shale and clay, sand and gravel, oil
Schuyler	Coal, shale and clay
Scott	Coal, shale and clay, limestone and dolomite
Shelby	Oil
Stark	Limestone and dolomite
Stephenson	Sand and gravel
Tazewell	Coal, sand and gravel, shale and clay, silica
Union	Limestone, shale and clay, silica
Vermilion	Coal, shale and clay, sand and gravel
Wabash	Coal, oil and gas, sand and gravel
Warren	Limestone
Washington	Coal, shale and clay, oil
White	Coal, sand and gravel, shale and clay, oil
Whiteside	Sand and gravel, limestone
Will	Coal, limestone, sand and gravel
Williamson	Coal, shale and clay
Winnebago	Limestone, sand and gravel
Woodford	Coal, shale and clay

LIMESTONE

The quarrying of limestone is an important industry and is carried on in 32 counties, representing every section of the State.

The limestone and dolomite layers crop out around the edges of the State and slope gently downward toward the middle of the State to form a great bowl called the Illinois Basin. This basin is floored by the deeply buried limestone layers and filled by the coal-bearing formations.

Eighty-three years ago the uses of limestone were few. It was burned for lime and cement, used in the construction of roads, buildings, and as a flux. The methods of preparing it for use were crude and the process slow.

Limestone now ranks among the foremost of the non-metallic mineral products and has more than 100 uses. Millions of tons are crushed for use in the great construction industry of the State, while large quantities go into making lime and cement, for agstone on the soil, and as a flux in the steel industry.

OIL AND GAS

By Alfred H. Bell
Illinois State Geological Survey

According to published records, the first test drilling for oil in Illinois took place in Clark County early in the decade beginning in 1860. About a dozen wells were drilled eight miles north of Casey, the first of which was located in Section 17, Township 11 North, Range 14 West, Clark County. Although these wells were in the area of the Westfield pool, they did not yield commercial oil production because the water was not cased off. Drilling was renewed in the area in 1904 and it opened up the Westfield pool located at the north end of the southeastern Illinois field in Clark, Crawford, Lawrence and parts of adjacent counties.

In 1882 a gas well was drilled two and one-half miles south of Litchfield, Montgomery County, and a few years later oil was discovered in the same area. According to the U. S. Bureau of Mines, oil was produced from 1889 through 1902, totalling 6,576 barrels. In those years the Litchfield pool was the only oil producing area in Illinois.

The southeastern Illinois oil field was drilled largely in the years 1905-1912. Production reached a peak of 33.7 million barrels in 1908. Up to date (1954) this field has produced half a billion barrels of oil. Up to the end of 1936, or before the discovery of oil in the Illinois Basin, this field had produced about 98% of Illinois' oil. The remaining 2% plus was from scattered pools in western Illinois, including Carlyle, Sandoval, Colmar-Plymouth, and Dupo.

Oil fields were discovered in the central basin area in 1937 and were rapidly developed during the next few years. Production reached a peak of about 147 million barrels in 1940. After that it declined rapidly at first but levelled off to about 60 million barrels per year by 1950. The first significant rise in production since 1940 took place in 1954 when it will approximate 65 million barrels. Two factors in this increase are (1) the growing use of secondary recovery by water-flooding and (2) the treatment of many producing wells by the hydraulic fracture method.

Up to the end of 1954 Illinois has produced approximately 1,764,000,000 barrels of oil, having a total value at the wells of approximately $2,937,000,000.

ANNUAL OIL PRODUCTION IN ILLINOIS*

Year	Production (Thousands of Bbl.)	Year	Production (Thousands of Bbl.)
1889-1902	7	1930	5,699
1905	181	1931	5,039
1906	4,397	1932	4,673
1907	24,282	1933	4,244
1908	33,686	1934	4,452
1909	30,898	1935	4,322
1910	33,143	1936	4,445
1911	31,317	1937	7,426
1912	28,601	1938	24,075
1913	23,894	1939	94,912
1914	21,920	1940	147,647
1915	19,042	1941	132,393
1916	17,714	1942	106,391
1917	15,777	1943	82,260
1918	13,366	1944	77,413
1919	11,960	1945	75,094
1920	10,774	1946	75,297
1921	10,043	1947	66,459
1922	9,383	1948	64,808
1923	8,707	1949	64,501
1924	8.081	1950	62,028
1925	7,863	1951	60,244
1926	7,760	1952	60,071
1927	6,994	1953	59,025
1928	6,462	1954 (Est.)	65,000
1929	6,319		

SAND AND GRAVEL

Illinois ranks high among the states of the Union in the production of sand and gravel. The value of this product is usually more than $14,000,000 annually. Sand and gravel deposits are found in more than one-half the counties of the State and mined in commercial quantities in fifty.

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* See Annual Crude Oil Production graph in the Division of Oil and Gas in this 1954 Annual Report, page V.

The kinds of sand and gravel, indicated by the purpose for which they are used, obtained from 100 or more pits in operation, are as follows:

Glass sand, molding sand, building sand, paving sand, grinding and polishing sand, fire or furnace sand, engine sand, filter sand and others; building gravel, paving gravel and railroad ballast gravel.

At the present time, the leading counties in the production of sand and gravel, producing more than 1,000,000 tons each, are: Cook, Kane, Kendall, LaSalle, McHenry, Ogle, Peoria, Tazewell, Will, and Winnebago. The total production of the State ranges, in recent years, from 6,000,000 to 15,000,000 tons.

SHALE AND CLAY

Shale and clay are mined in 35 or more counties of the State, the number varying from year to year. All sections of the State except the extreme northern part are represented, the leading counties being Cook, LaSalle, Knox, Madison, St. Clair, Saline, Vermilion and Sangamon. Kinds of clay found here include fireclay, shale, surface clay, fuller's earth, and kaolin. Some of the products made from Illinois shale and clay are brick, drain tile, hollow brick, plaster for walls of industrial furnaces, refractory brick that can withstand the great heat in molten metal furnaces, art pottery, stoneware for kitchens, and sewer pipes.

Shale is mixed with limestone in cement making. Illinois kaolin is used for crucibles and for china and porcelain. Fuller's earth is employed for bleaching oil, as an oil and grease absorbent, and as a sweeping compound.

About half the total of the Upper Mississippi Valley, or about $45,000,000 worth of clay products is produced yearly in Illinois.

SILICA

Illinois has a particularly pure type of silica, mined near Ottawa, LaSalle County, in northern Illinois, and in Alexander and Union counties at the southern tip of the State.

Silica is used extensively in making glass, is ground flour-fine for grinding powder or for use in enamel, pottery, porcelain and tile, or as an ingredient in paint. Southern Illinois silica, known as tripoli, is used mostly in paint, as fine grinding powders (including "white rouge"), in polishing compounds, and as an ingredient in concrete.

This State leads the nation in the production of silica sand. In 1952, Illinois-mined silica in the amount of 2,367,000 tons was sold for $5,438,000.

The following table shows the output of the different industries from the earliest available reports to December 31, 1953. The figures prior to 1920 are taken from the U. S. Government reports; since that time reports have been made to this Department.

Year	Limestone—tons	Sand and Gravel—tons	Shale and Clay—tons	Silica—tons
1905	6,161,210	1,393,012	127,728	---
1906	4,987,000	2,419,381	129,724	---
1907	5,991,026	4,315,275	123,715	---
1908	5,118,938	6,463,026	117,082	---
1909	6,942,500	8,930,848	144,060	---
1910	6,521,610	8,317,854	188,803	---
1911	5,825,384	8,236,776	182,836	---
1912	6,520,000	6,634,434	176,558	---
1913	6,741,265	7,641,911	194,937	---
1914	4,690,721	4,356,579	161,034	---
1915	4,773,505	7,141,884	163,904	---
1916	5,512,707	7,877,793	197,701	---
1917	4,555,200	9,120,698	195,693	---
1918	3,106,363	6,355,406	109,182	---
1919	6,638,290	3,639,177	1,547,189	---
1920	5,381,942	3,254,173	1,957,918	759,867
1921	5,972,952	2,729,456	1,670,238	773,324
1922	5,425,398	2,742,007	1,854,149	448,882
1923	5,962,469	3,851,004	2,159,717	1,763,352
1924	7,275,647	5,905,436	4,503,296	1,134,384
1925	12,557,412	10,287,951	7,184,268	1,925,884
1926	13,717,636	10,548,500	4,364,228	1,404,187
1927	13,006,804	10,651,242	4,371,672	1,807,133
1928	12,284,256	13,719,242	3,855,843	1,601,944
1929	11,203,531	9,813,658	8,623,522	2,324,768
1930	6,875,473	11,263,437	1,956,395	1,514,266
1931	6,459,396	7,433,071	1,013,074	845,318
1932	4,288,556	3,964,308	590,624	546,397
1933	3,092,297	2,745,684	268,972	699,093
1934	4,158,483	3,047,557	905,097	831,553
1935	4,453,862	3,184,431	587,521	976,712
1936	7,901,129	6,361,662	995,418	1,043,271
1937	3,698,984	3,718,146	1,511,239	1,318,749
1938	3,725,465	2,421,709	1,276,251	536,015
1939	4,373,491	1,893,470	838,698	595,357
1940	4,087,874	1,902,997	946,232	74,849
1941	14,798,945	10,543,061	40,552,697	2,394,593
1942	14,877,757	11,380,243	1,428,951	3,202,631
1943	7,967,741	4,336,058	1,032,378	3,163,060
1944	7,814,216	4,071,920	410,059	3,044,971
1945	4,351,349	3,421,954	564,332	1,691,619
1946	6,076,748	4,081,683	820,801	1,613,993
1947	5,721,159	4,386,108	869,734	1,572,643
1948	5,633,633	4,281,221	768,841	1,258,983
1949	7,734,366	4,560,383	691,206	1,362,539
1950	7,296,948	3,772,192	803,753	1,401,311
1951	7,640,066	4,309,143	899,470	1,739,071
1952	7,275,483	4,167,758	558,317	14,765
1953	7,440,732	3,426,224	585,743	---

Chapter X

DIVISION OF METAL MINES INSPECTION

The law of 1917 conferred upon the Department of Mines and Minerals the power and duty "To make inquiry into the economic conditions affecting the mining, quarrying, metallurgical, clay, oil and other mineral industries."

On June 29, 1921, Governor Small approved an Act, which became effective on January 1, 1922, providing for the inspection of mineral mines and defining the term "mineral" to mean, when used in this Act, "Whatever is recognized by the standard authorities as mineral, whether metaliferous or non-metaliferous, but shall not be held to embrace or include coal, lignite, gas, oil, or any substance extracted in solution or in molten state through bore holes."

The office of inspector was created and the Governor, by and with the consent of the Senate, was empowered to appoint the inspector for a term of four years. The office of "inspector of mines" was placed under the jurisdiction of the Department of Mines and Minerals. Strict provisions were made for the inspection of the mines, looking to the betterment of working conditions, preservation of the property and the making of annual reports. Mr. Edward S. Smith was appointed inspector soon after the law became operative, and served in that capacity until 1932.

The work of the inspector is confined, practically, to the fluorspar mines in the southeast part of the State and to the lead and zinc mines in JoDaviess County.

In 1945, an Act concerning metal mines and subjects relative thereto was passed, providing for the health and safety of persons employed in metal mines and authorizing the Governor to appoint mine inspectors. It prescribes qualifications and duties of mine inspectors. The Act provides: that in case of mine accident, the operator or superintendent make an immediate telephone call, followed by a written report, to the inspector; that operator or superintendent furnish all requested information to inspector concerning working conditions and any accidents in mine; that the inspector personally visit every active mine not less than once in every three months or as often as he deems it necessary to assure safety of workmen. It gives the inspector power to compel attendance of witnesses by subpoena, take depositions, administer oaths and conduct hearings concerning his investigation of safety conditions in and about the mine, and authorizes him to order stoppage of work in any unsafe area of mine. Qualifications for position of mine foreman are provided, and qualifications and duties of hoisting engineers prescribed.

Prior to 1919 no reports were made to any department of the State government of the operation of these mines, and we are dependent upon outside sources for information. From these we learn the fluorspar has been mined in this State continuously since 1880, and at intervals for 40 years prior to that time.

According to "Mineral Resources of the United States, 1925," fluorspar was discovered in Illinois in 1839, but no mining was attempted till about 1842, when it was found near the present site of Rosiclare, in Hardin County, and development begun. Mining was carried on in a very limited way, as the demand for this commodity was restricted to uses in the preparation of hydrofluoric acid and in the manufacture of glass. It was not till 1880 that a record was kept of the annual production, and only an estimate of the total from the first to 1880 can be given, which is placed at 20,000 tons.

From 1880 to 1901, 119,400 tons of this metal were produced. About 1900, the advantage of fluorspar over limestone as a flux in basic open-hearth steel plants was generally recognized, and this widened market resulted in greatly increased production.

The hydrofluoric acid made from fluorspar enters into the preparation of many chemicals, including those which play a part in the manufacture of high-octane gasoline, refrigerants, plastics, and insecticides.

In addition to its use in the steel industry, fluorspar and compounds made from it are used in the aluminum industry, as well as extensively in the manufacture of enameled and sanitary ware, opalescent glass, facing for bricks, as a flux in iron and brass furnaces, and in smelting of gold, silver and copper.

An attractive mineral as hard and lustrous as glass, fluorspar is commonly an amethyst color but also white, yellow, blue, green, brown, or black. It is made up of calcium and fluorine. Some varieties glow in invisible ultraviolet light, this property giving the name "fluorescence", after the mineral.

Fluorspar is mined from veins as much as 800 feet deep, in Pope and Hardin counties.

About three-fourths of the fluorspar mined in the Western Hemisphere has come from a small area in Illinois and Kentucky. Illinois produces the larger share—about $8,000,000 worth annually.

LEAD AND ZINC

Lead deposits in northwestern Illinois were known to French explorers over 250 years ago and have played an important part in Illinois history. In southeastern Illinois, lead mining began in 1842, lead being recovered from the fluorspar mines.

Most of the Illinois lead-zinc ore is free from the stubborn impurities so common in many lead and zinc ores, though until fairly recent times the zinc was thought to be of no value. An average of about

$6,000,000 worth of lead and zinc has been produced annually since the war, most of it coming from Jo Daviess County in the extreme northwest corner and from Pope and Hardin counties in the southeast corner of the State.

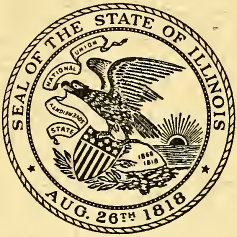
The following table gives the production in tons by years from 1919 to 1953, and is taken from annual reports to this Department.

Year	Fluorspar—tons	Lead and Zinc—tons
1919	175,689	28,633
1920	178,515	29,060
1921	132,369	21,310
1922	88,173	18,325
1923	89,236	8,515
1924	52,258	10,473
1925	75,250	9,725
1926	75,798	13,420
1927	73,440	2,204
1928	98,069	535
1929	77,555	708
1930	66,014	392
1931	34,664	289
1932	6,923	7
1933	44,759	403
1934	60,429	8
1935	85,272	----------
1936	120,797	35
1937	106,320	3
1938	50,818	60
1939	112,520	4
1940	154,579	2
1941	196,488	30,210
1942	164,393	126,274
1943	247,214	80,925
1944	302,481	57,277
1945	317,372	----------
1946	374,353	181,567
1947	437,854	3,961
1948	500,110	16,033
1949	482,649	110,340
1950	683,472	396,606
1951	949,851	266,160
1952	950,824	272,701
1953	831,880	162,548

The following table lists the names, addresses, and dates of service of metal mines inspectors:

Term of Service	Name	Address
1922-1932	Edward S. Smith	Rosiclare
1933-1940	Homer Harris	Rosiclare
1941-1945	Oscar Rice	Elizabethtown
1946-1947	Cecil Cullum	Elizabethtown
1948-1950	Clifford L. Stone	Rosiclare
1951	Arnold E. Black	Elizabethtown
1952-	Cecil Cullum	Elizabethtown

STATE OF ILLINOIS
WILLIAM G. STRATTON, Governor



COAL REPORT

ILLINOIS
1954

STATE OF ILLINOIS
WILLIAM G. STRATTON, *Governor*

Seventy-third
COAL REPORT OF ILLINOIS
1954

DEPARTMENT OF MINES AND MINERALS

BEN H. SCHULL, *Director*
Marion

MURRELL REAK, *Assistant Director*
West Frankfort

[Printed by authority of the State of Illinois.]

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(13247)

LETTER OF TRANSMITTAL

State of Illinois,
Department of Mines and Minerals,

Springfield, Illinois, May 1, 1955.

To His Excellency, William G. Stratton, Governor
State of Illinois, Springfield.

Sir: I have the honor to submit herewith the Seventy-third Annual Coal Report of the State of Illinois, Department of Mines and Minerals, for the year ending December 31, 1954.

Respectfully submitted,

Ben H. Schull, *Director.*

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DIVISION OF OIL AND GAS

DIRECTORS OF ILLINOIS — DEPARTMENT OF MINES AND MINERALS

Name	Years served	Address	Remarks
Newsam, Richard	1898-1912	Peoria	
John, Evan D.	1917-1919	Spaulding	
Thompson, Joseph C.	1919-1920	Johnston City	
Medill, Robert M.	1920-1924	Roanoke	
Bolt, Martin	1924-1926	Springfield	
Lewis, A. D.	1926-1930	Springfield	
Millhouse, John G.	1930-1934	Litchfield	
McSherry, James	1934-1941	DuQuoin	
Medill, Robert M.	1941-1947	Roanoke	
Walker, Harold L.	April 2 to October 1, 1947	Urbana	
Moses, Thomas	October 1, 1947 to February 20, 1948	Danville	Died in office.
Cruse, Robert R.	March 1, 1948 to January 16, 1949	Dowell	
Starks, James W.	January 17, 1949 to February 3, 1949	Taylorville	Died in office.
Walker, Harold L.	February 8 to April 18, 1949	Urbana	
Eadie, Walter	April 19, 1949 to January 15, 1953.	West Frankfort	
Schull, B. H.	January 15, 1953	Marion	

DEPARTMENT OF MINES AND MINERALS

Ben H. Schull, *Director*
Phone: 6611, Station 536
Springfield, Illinois

Murrell Reak, *Assistant Director*
Phone: 6611, Station 537
Springfield, Illinois

MINING BOARD

Ben H. Schull, *Executive Officer*, Springfield, Illinois.

Oliver E. Bishop, *Secretary*, 121 Maple Street, Zeigler, Illinois.

Walter Gill, Member, 402 East Adams Street, Bradley Building, Springfield, Illinois.

John W. Abrell, Sr., Member, P. O. Box 187, Farmersville, Illinois.

Roy V. France, Member, 407 South Hibbard Street, Staunton, Illinois.

MINE RESCUE STATIONS

Superintendents and Station Addresses

Belleville —Edward S. Wright, 328 A West Main Street.
Benton No. 1—Louis Myrick, 503 East Main Street.
Benton No. 2—Arch Ivy, 503 East Main Street.
Duquoin —Ben Davison, 32 North Division Street.
Eldorado —Bennie Gibbs, First National Bank Building.
Springfield —William J. Williams, 609 Princeton Avenue.

MINERS' EXAMINING BOARD

Joseph Boetta, *President*, 800 North Adams Street, Gillespie, Illinois.

Donald T. Vinyard, *Secretary*, 1508 Fisk Avenue, Eldorado, Illinois.

John V. Oldani, Member, 717 North Fourteenth Street, Herrin, Illinois.

Claud Brown, Member, 2814 Trolley Road, Eldorado, Illinois.

INSPECTORS-AT-LARGE

RAY MCCLUSKEY, 602 East Grand Avenue, Carterville, Illinois.
ALBERT H. MORRIS, 807 West Elm Street, Taylorville, Illinois.

METAL MINES INSPECTOR

CECIL CULLUM, Elizabethtown, Illinois.

GENERAL OFFICE

Administrative Secretary: EDNA ROACH, 414 East Canedy, Springfield, Illinois.

Chief Clerk: JOSEPH C. TABOR, 1937 North Twentieth Street, Springfield, Illinois.

Account Clerk: MILDRED GLENWRIGHT, 1800 Dial Court, Springfield, Illinois.

Mining Statistician: LYNN BREWER, Virden, Illinois.

Clerk-Steno I: ELISABETH GATHARD, Riverton, Illinois.

Clerk-Typist II: EVELYN CUMMINGS, Athens, Illinois.

Explosive Inspector: JAMES LITCHFIELD, 436 West Canedy, Springfield, Illinois.

Clerk Typist I: JERALD SCOTT, 1505 South State, Springfield, Illinois.

LIST OF STATE MINE INSPECTORS AND COUNTIES COMPRISING THEIR RESPECTIVE DISTRICTS

First District—Charles Van Schaick, *Inspector*, 216 West Devlin Street, Spring Valley, Illinois. Grundy, LaSalle, Livingston, Will, Kankakee, Stark, Marshall and Bureau Counties.

Second District—Arthur Riedlinger, *Inspector*, 117 Amsler Street, Bartonville, Illinois. Peoria and Tazewell Counties.

Third District—Homer E. Roman, *Inspector*, 644 South Randolph Street, Macomb, Illinois. Henry, Warren, Knox, Hancock, Schuyler, Mercer, Brown and McDonough Counties.

Fourth District—James I. Jayne, *Inspector*, Box 195, Cuba, Illinois. Fulton County.

Fifth District—Charles Blakeney, *Inspector*, R. R. No. 4, Danville, Illinois. Vermilion, Douglas and Clark Counties.

Sixth District—George Hall, *Inspector*, 1809 South Lincoln Avenue, Springfield, Illinois. Sangamon, Logan, Menard and Morgan Counties.

Seventh District—John Kotzman, *Inspector*, 400 West Maple Street, Taylorville, Illinois. Christian County.

Eighth District—William Mitchell, *Inspector*, General Delivery, Mt. Olive, Illinois. Macoupin County.

Ninth District—Rudolph R. Schiber, *Inspector*, Glen Carbon, Illinois. St. Clair, Greene, Madison and Jersey Counties.

Tenth District—Frank Stank, *Inspector*, Taylor Springs, Illinois. Macoupin, Madison and Montgomery Counties.

Eleventh District—Fred Lippert, *Inspector*, 920 Centerville Avenue, Belleville, Illinois. St. Clair and Randolph Counties.

Twelfth District—Harold V. Richmond, *Inspector*, 408 South Mill Street, Nashville, Illinois. Clinton, Marion, Washington, Jefferson and Randolph Counties.

Thirteenth District—George G. Guiney, *Inspector*, Sesser, Illinois.

Fourteenth District—Theodore A. Plumlee, *Inspector*, 901 East Oak, West Frankfort, Illinois.

Fifteenth District—John L. Romine, *Inspector*, 606 South Monroe, West Frankfort, Illinois. Franklin, Perry, Jackson and Randolph Counties.

Sixteenth District—Edmund Grezlak, *Inspector*, 810 West Webster, Benton, Illinois. Franklin, Perry and Williamson Counties.

Seventeenth District—James Sneddon, *Inspector*, 210 Sylvia Avenue, Christopher, Illinois. Franklin County.

Eighteenth District—Charles L. Morrow, *Inspector*, Tamaroa, Illinois. Jackson and Williamson Counties.

Nineteenth District—Roscoe Moore, *Inspector*, 301 East Washington, Benton, Illinois. Williamson and Perry Counties.

Twentieth District—Aden Whaley, *Inspector*, Mulkeytown, Illinois. Jackson and Randolph Counties.

Twenty-first District—Mike Sciranko, *Inspector*, 204 West Washington, Benton, Illinois. Williamson and Saline Counties.

Twenty-second District—Joe Harris, *Inspector*, 811 South Ledford Street, Harrisburg, Illinois. Gallatin, Saline and Williamson Counties.

I *General*

I GENERAL—TABLE 1—DIRECTORY

No.	Name of operator	County	Post office
1	Alpha Coal Co.	Henry	Alpha
2	Bell & Zoller Coal Co. #2, Buckhorn	Williamson	Johnston City
3	Bell & Zoller Coal Co. #3, Zeigler	Williamson	Zeigler
4	Bell & Zoller Coal Co. "Murdock Mine"	Douglas	Murdock
5	Big Five Coal Co., Inc. "Conant Mine"	Perry	Conant
6	Blue Bird Coal Co. #7	Williamson	Harrisburg
7	Blue Bird Coal Co. #8	Williamson	Harrisburg
8	Bois Coal Co. "Kuhn"	Washington	DuBois
9	Breese Coal Co., Inc. "North Breese"	Clinton	Breese
10	C. & C. Coal Co.	Williamson	Marion
11	Carmac Coal Co.	Williamson	Marion
12	Chicago, Wilmington & Franklin Coal Co. #1	Franklin	Orient
13	Chicago, Wilmington & Franklin Coal Co. #2	Franklin	West Frankfort
14	Chicago, Wilmington & Franklin Coal Co. #3	Jefferson	Waltonville
15	Co-op Coal Co. #1	Jackson	Carbondale
16	Cutler Coal Co., Inc.	Perry	Cutler
17	Delta Collieries Corp. "Delta"	Williamson	Marion
18	Elk Coal Co.	Jackson	Elkville
19	Fairview Collieries Corp. "Flamingo"	Fulton	Fairview
20	Fairview Collieries Corp. "Harmattan"	Vermilion	Danville
21	Forsyth-Carterville Coal Co.	Williamson	Carterville
22	Freeburn Mining Co. "Freeman #3"	Williamson	Marion
23	Freeman Coal Mining Corp. #4	Williamson	Marion
24	Freeman Coal Mining Corp. "Crown"	Montgomery	Farmersville
25	Golden Rule Coal Co.	St. Clair	Lenzburg
26	Harrisburg Coal Co.	Williamson	Marion
27	Joliana Coal Mining Co.	Jackson	Elkville
28	Key Coal Co.	Fulton	Astoria
29	Little Coal Co.	Knox	Farmington
30	Little Dog Coal Co.	Macoupin	Gillespie
31	Little Sister Coal Corp.	Fulton	St. David
32	Livingston-Mt. Olive Coal Co. #1	Madison	Livingston
33	Lumaghi Coal Co. #4	Madison	Collinsville
34	Marion County Coal Mining Corp.	Marion	Centralia
35	Mid-Continent Coal Corp. "Green Diamond"	St. Clair	Marissa
36	Midland Electric Coal Corp. #1	Bureau	Atkinson
37	Midland Electric Coal Corp. "Rapatee #3"	Knox	Farmington
38	Midland Electric Coal Corp. "Middlegrove #2"	Knox	Farmington
39	Midwest Utilities Coal Corp. "Bradbury"	Randolph	Sparta
40	Moffat Coal Co.	Randolph	Sparta
41	Morgan Mines, Inc.	Williamson	Herrin
42	Morgan Mines, Inc. "Morgan-Bryant"	Fulton	Lewistown
43	Morgan Mines, Inc. "Wolz-Baltz Pit"	St. Clair	Millstadt
44	Mt. Olive & Staunton Coal Co. #2	Madison	Staunton
45	New Black Crystal Coal Co.	Williamson	Marion
46	New Black Diamond Coal Co.	Williamson	Marion
47	New West Side Coal Co., Inc. #1087	St. Clair	Marissa
48	Northern Illinois Coal Corp. #14	Kankakee	Wilmington
49	Old Ben Coal Corp. #9	Franklin	West Frankfort
50	Old Ben Coal Corp. #14	Franklin	Buckner
51	Old Ben Coal Corp. #15	Franklin	West Frankfort
52	Old Ben Coal Corp. #22	Franklin	Valier
53	Peabody Coal Co. #8	Christian	Tovey
54	Peabody Coal Co. #10	Christian	Pawnee
55	Peabody Coal Co. #14	Perry	DuQuoin
56	Peabody Coal Co. #17	Christian	Pana
57	Peabody Coal Co. #40	Saline	Galatia
58	Peabody Coal Co. #43	Saline	Harrisburg
59	Perry Coal Co. "St. Ellen"	St. Clair	O'Fallon
60	Pschirrer Coal Co. #3	Fulton	Canton
61	Pure Coal Co.	Williamson	Marion
62	Ritter Coal Co. "Red Fox #3"	Randolph	Sparta
63	St. Louis & O'Fallon Coal Co. "Black Eagle #2"	St. Clair	Belleville

OF SHIPPING MINES—1954

General superintendent	Superintendent of mine	Local mine manager	Address of main office of company	No.
R. T. White	John Bugos	John W. Whimpey	415 Putnam Bldg., Davenport, Iowa	1
C. W. Padgett	A. Gothard	D. Pierce	307 N. Michigan Ave., Chicago, Ill	2
C. W. Padgett	Wm. Guiney	Percy McSpadden	307 N. Michigan Ave., Chicago, Ill	3
		Elmos Williams	307 N. Michigan Ave., Chicago, Ill	4
	Carl Huffstutler	L. L. Freeman	Cutler, Ill	5
R. B. Cochran		Emil Choisser	Harrisburg, Ill	6
R. B. Cochran		Booker Shell	Pruett Bldg., Harrisburg, Ill	7
John Waligorski	John Waligorski	Theodore M. Heck	DuBois, Ill	8
E. M. Roach		George Gouy	Box 235, Breese, Ill	9
V. R. Corder	Roy Corder	Dave Bowen	Route No. 3, Marion, Ill	10
George C. McFadden	Charles W. Barker	Reuben Tucker	Rm. 2273, 20 N. Wacker Drive, Chicago, Ill	11
H. L. Schulz	H. L. Schulz	James Camp	Rm. 407, 332 S. Michigan Ave., Chicago, 4, Ill	12
H. L. Schulz	John R. Foster C. M. Walker, Ass't	Arlie N. Cook	Rm. 407, 332 S. Michigan Ave., Chicago, 4, Ill	13
H. L. Schulz	Fred A. Miller G. A. Stachura, Ass't.	Sewell Hurst	Rm. 407, 332 S. Michigan Ave., Chicago, 4, Ill	14
		J. T. Johns	Carbondale, Ill	15
		George Gass	Cutler, Ill	16
W. A. Endicott	Maurice Williams	Maurice Williams	430 Big Four Bldg., Indianapolis, Ind	17
		Ivan Replogle	Elkville, Ill	18
W. A. Endicott	Ellis Maxwell		105 S. Meridian St., Indianapolis, Ind	19
W. A. Endicott	C. E. Walker		105 S. Meridian St., Indianapolis, Ind	20
W. R. Forsyth	J. E. Singhurse	R. J. Newhouse	20 S. Central Ave., Clayton 5, Mo	21
Roland Wilson	Roland Wilson	George Anderson	300 W. Washington St., Chicago 6, Ill	22
Roland Wilson	Van E. Austin	Guy Hargett	300 W. Washington St., Chicago 6, Ill	23
	John W. Abrell	Bernard Burke	300 W. Washington St., Chicago 6, Ill	24
George Gass	George Gass	George Gass	Lenzburg, Ill	25
Ray Sims	Ray Sims	Claude McNew	1008 E. Blvd., Marion, Ill	26
George G. Guiney		Paul McCormick	208 S. LaSalle St., Chicago 4, Ill	27
Don Johnston	C. W. Imlay		114 W. 11th St., Kansas City, Mo	28
			Farmington, Ill	29
Clarence V. Beck, Jr.	Clarence V. Beck, Jr.	Elmer O'Neal	122 N. 7th St., St. Louis, Mo	30
J. O. Guyton	L. W. West		307 N. Michigan Ave., Chicago, Ill	31
		Ralph E. Sawyer	Livingston, Ill	32
	L. L. Ruff	F. E. Neubauer	111 N. 4th St., St. Louis 2, Mo	33
Robert Gore	Robert Gore	Oscar Lucking	Box 421, Centralia, Ill	34
A. S. Macke	A. S. Macke	M. O. Barber	Suite 2041, 310 S. Michigan Ave., Chicago, Ill	35
W. E. Mullins, Jr. R. K. Ronk	H. R. Hays	H. R. Hays	1300 Fletcher Trust Bldg., Indianapolis 4, Ind	36
R. K. Ronk	C. H. German		1300 Fletcher Trust Bldg., Indianapolis 4, Ind	37
R. K. Ronk	W. W. Youngblood		1300 Fletcher Trust Bldg., Indianapolis 4, Ind	38
H. W. Bradbury	E. E. Green	Albert Simm	Sparta, Ill	39
J. D. Moffat	H. B. Whittington	Cliff Thomas	173 W. Broadway, Sparta, Ill	40
Chas. Thomas	Glen Peugh	Nova Cooper	2850 N. Meridian St., Indianapolis, Ind.	41
Chas. Thomas		Otis Bearce	2850 N. Meridian St., Indianapolis, Ind.	42
Charles Thomas	Harold Thomas		2850 N. Meridian St., Indianapolis, Ind.	43
J. S. Forman	George Timmerman	Stephan Pirok	800 LaClede Gas Bldg., St. Louis, Mo	44
Guy Hargett	Frank Hilliard	Frank Hilliard	807 N. Washington, Marion, Ill	45
Everett Howerton		Andrew Jones	Box 69, Marion, Ill	46
Rudolph L. Gegel			Marissa, Ill	47
Don Johnston	Raymond Kuplen		114 W. 11th St., Kansas City, Mo	48
Howard Lewis	Joseph Littlefair	John Sharkness H. C. Herrin	230 S. Clark St., Chicago 4, Ill	49
Howard Lewis	Wm. H. Bailey	Isham Jones Frank Hiscox	230 S. Clark St., Chicago 4, Ill	50
Howard Lewis	Wm. H. Bailey	Pat McGovern	230 S. Clark St., Chicago 4, Ill	51
Howard Lewis	Joseph Littlefair	Thurman Gulley Robert Littlefair	230 S. Clark St., Chicago 4, Ill	52
Joe Craggs	A. J. Colquhoun	Cletus Foster	208 S. Main St., Taylorville, Ill	53
Joe Craggs	John M. Carney	Leo Gilmartin	208 S. Main St., Taylorville, Ill	54
Joe Craggs	Coil Whitlow	Raymond South	208 S. Main St., Taylorville, Ill	55
Joe Craggs	Tony Shimkus	William Hatfield	208 S. Main St., Taylorville, Ill	56
Joe Craggs	Glen Dodd	Ruby Keown	208 S. Main St., Taylorville, Ill	57
Joe Craggs	Glen Dodd	Henry Parks	208 S. Main St., Taylorville, Ill	58
Wm. R. Winters	Jos. Johnson	Rollie E. Meeks	220 N. 4th St., St. Louis, Mo	59
A. R. Pschirrer	John Pschirrer	George Pschirrer	R. R. No. 4, Canton, Ill	60
		Raleigh McCluskey	Box 69, Marion, Ill	61
Leo J. Ritter			Box 247, Sparta, Ill	62
Kenneth Woosley	James Oliver	John Richmond	Box 657, Belleville, Ill	63

No.	Name of operator	County	Post office
64	Sahara Coal Co., Inc. #5	Saline	Harrisburg
65	Sahara Coal Co., Inc. #6	Saline	Harrisburg
66	Sahara Coal Co., Inc. #7	Saline	Harrisburg
67	Sahara Coal Co., Inc. #16	Saline	Harrisburg
68	Saxton Coal Corp. "Newcastle #2"	Saline	Carrier Mills
69	Seminole Coal Corp. #17	St. Clair	Lenzburg
70	Service Coal Co. #6	Perry	Pinckneyville
71	Southwestern Illinois Coal Corp	Randolph	Percy
72	Stonefort Corp. "Little John"	Knox	Victoria
73	Stonefort Corp. "Will Scarlet"	Williamson	Stonefort
74	Strobel Coal Co	Williamson	Marion
75	Superior Coal Co. #4	Macoupin	Gillespie
76	Truax-Traer Coal Co. "Burning Star #1 Drift"	Jackson	Elkville
77	Truax-Traer Coal Co. "Burning Star #1 Strip"	Jackson	Elkville
78	Truax-Traer Coal Co. #2	Perry	Pinckneyville
79	Truax-Traer Coal Co. "Pyramid"	Perry	Pinckneyville
80	Truax-Traer Coal Co. "Red Ember"	Fulton	Fiatt
81	Union Colliery Co. "New Kathleen"	Perry	DuQuoin
82	The United Electric Coal Cos. #9	Fulton	Cuba
83	The United Electric Coal Cos. #11	Perry	DuQuoin
84	The United Electric Coal Cos. #17	Fulton	Canton
85	V-Day Coal Co	Vermilion	Danville
86	Virden Mining Corp. #180	Macoupin	Virden
87	Wilkins Coal Co. "New Spillertown"	Williamson	Marion
88	Wilmington Coal Mining Corp. "Braidwood"	Will	Braidwood

TABLE 1—Concluded

General superintendent	Superintendent of mine	Local mine manager	Address of main office of company	No.
Paul Halbersleben	Robert Morris	Charles Boyd	59 E. Van Buren St., Chicago 5, Ill	64
Paul Halbersleben	J. A. Bottomley	Douglas Ewell	59 E. Van Buren St., Chicago 5, Ill	65
Paul Halbersleben	Walter Sadler	Vern Gidcumb	59 E. Van Buren St., Chicago 5, Ill	66
Paul Halbersleben	Dewey Marks	Malcolm Tierney	59 E. Van Buren St., Chicago 5, Ill	67
Darwin Youngs	John Wible		Box 55, Petersburg, Ind	68
	W. H. Price	W. L. Degen	114 W. 11th St., Kansas City, Mo	69
		Arthur Morgenstern	Pinckneyville, Ill	70
W. E. Mullins, Jr	T. C. Mullins, Jr		1514 Merchants Bank Bldg., Indianapolis, Ind	71
S. F. Sherwood	L. H. Sherwood	L. H. Sherwood	1016 Merchants Bank Bldg., Indianapolis, Ind	72
Ray Baughman	W. W. Dukes	Wayne Edwards	1015 Merchants Bank Bldg., Indianapolis, Ind	73
Amos Strobel			R. R. No. 4, Marion, Ill	74
Lawrence Kiss	Robert McKee	Joe Vidmar	Gillespie, Ill	75
F. A. Huff	James Martin	Guy C. Estes	230 N. Michigan Ave., Chicago 1, Ill	76
F. A. Huff	James J. Harper	R. E. Henderson	230 N. Michigan Ave., Chicago 1, Ill	77
F. A. Huff	C. D. Heatherly	R. E. Henderson	230 N. Michigan Ave., Chicago 1, Ill	78
F. A. Huff	Len Hartwell	R. E. Henderson	230 N. Michigan Ave., Chicago 1, Ill	79
Byron Somers	Byron Somers		230 N. Michigan Ave., Chicago 1, Ill	80
	Harry Williamson	G. J. Higgins, Sr	315 N. 12th Blvd., St. Louis, Mo	81
L. G. Shorthouse, Jr	C. E. Bell		307 N. Michigan Ave., Chicago 1, Ill	82
L. G. Shorthouse, Jr	E. E. Laurell		307 N. Michigan Ave., Chicago 1, Ill	83
L. G. Shorthouse, Jr	H. Miller		307 N. Michigan Ave., Chicago 1, Ill	84
Arthur Zamberletti		Jewell Jones	Danville, Ill	85
Dave Whalen		Lloyd Ray	Dye & Fortune Sts., Virden, Ill	86
	Gene Wilkins	Carlyle Ament	106 E. Blvd., Marion, Ill	87
C. R. McElvain		W. H. Brown	Box 311, Morris, Ill	88

I GENERAL—TABLE 1A—DIRECTORY

No.	Name of operator	County	Post office
1	A. & M. Coal Co.	Fulton	Astoria
2	Howard Albrecht Coal Co. #2	Peoria	Peoria
3	B-10 Coal Co.	Vermilion	Catlin
4	B. & W. Coal Co.	Gallatin	Junction
5	Baiett & Talbot Coal Co.	Livingston	Streator
6	Barbara Kay Coal Co.	Williamson	Marion
7	Becker & Sons Coal Co.	Fulton	Peoria
8	Beecham Bros. Coal Co.	Peoria	Glasford
9	Bell Valley Coal Co.	St. Clair	Belleville
10	Big Bear Coal Co.	Peoria	Peoria
11	Birch Creek Coal Co.	Greene	Roodhouse
12	Blu-Blaz-Bloc Coal Co., Inc.	Gallatin	Sparks Hill
13	Blue Bell Coal Co. #1	Williamson	Marion
14	Blue Lake Coal Co.	Vermilion	Catlin
15	Bluff Coal Co. #1	Madison	Collinsville
16	Bruketta & Sons Coal Co.	Fulton	Farmington
17	Cantrall Coal Co.	Sangamon	Springfield
18	Carterville Blue Blaze Coal Co.	Williamson	Carterville
19	Charter Oak Coal Co.	Peoria	Peoria
20	Cherry Hill Coal Co.	Williamson	Marion
21	Chicago Retort & Fire Brick Co.	LaSalle	Ottawa
22	Citizens Coal Co. "East Breese"	Clinton	Breese
23	Collins Bros. Coal Co.	Peoria	Pottstown
24	Joe P. Cooksey #1	Jackson	Marion
25	Crain Coal Co., Inc.	Randolph	Percy
26	D. & D. Coal Co.	Schuyler	Rushville
27	Day Branch Coal Co.	Fulton	Lewistown
28	Deep Valley Coal Co.	Vermilion	Danville
29	Deer Creek Coal Co.	Logan	Lincoln
30	Dillard Coal Co. #2	Gallatin	Logan
31	Lawrence Donovan Coal Co.	LaSalle	Utica
32	DuQuoin Coal Co.	Perry	DuQuoin
33	Eagle Creek Coal Co. #1	Saline	Broughton
34	East Side Coal Co.	St. Clair	Freeburg
35	Eblen Bros. Coal Co. #1	Fulton	Canton
36	Eddy Coal Co.	Sangamon	Cantrall
37	Ellisville Mining Co. #1	Fulton	Ellisville
38	Elm Grove Coal Co.	Perry	Cutler
39	Farrand Coal Co.	Sangamon	Riverton
40	Forden Coal Mine	Menard	Petersburg
41	Fredrickson Coal Co.	Vermilion	Danville
42	French Coal Co.	LaSalle	Streator
43	Gem Coal Co.	Perry	Pinckneyville
44	Georgetown Coal Co.	Vermilion	Westville
45	Glore & Fritz Coal Co.	Fulton	Ellisville
46	Green Coal Co.	Schuyler	Camden
47	Green Top Coal Co.	Vermilion	Danville
48	Greenview Fuel Co.	Menard	Greenview
49	Herkle & McDonald #1	Saline	Carrier Mills
50	Orval J. Hillard Coal Co.	Williamson	Marion
51	Hopkins Coal Co.	Fulton	Astoria
52	Independent Coal Co. "Turner #1"	Williamson	Marion
53	Indian Creek Coal Co.	Menard	Petersburg
54	J. & J. Coal Co., Inc. #1	Peoria	Canton
55	J. & J. Coal Co., Inc. #2	Peoria	Canton
56	Jim Mine, Inc.	Henry	Coal Valley
57	Jones Coal Co.	Fulton	Astoria

OF LOCAL MINES—1954

Mine manager	Mine examiner	Engineer	Post office address of operator	No.
Howard Albrecht			Morton, Ill.	1
Howard Albrecht			134 Chicago Ave., Morton, Ill.	2
Anthony Rimshas		Charles Yutis	231 Williams St., Westville, Ill.	3
Aubney Renshaw Wm. J. Whitter Joe Merritt Frank Millspaugh	Wm. J. Whitter Frank Millspaugh	Dwight Bixler Harry Borum	Junction, Ill.	4
			301 W. Stanton St., Streator, Ill.	5
Leon King Lavern King Louis Grider	Lavern King Norman Cowles Louis Grider Jewell Parmley	Stanton Farthing	Box 69, Marion, Ill.	6
Harry Becker			807 Kettelle St., Peoria, Ill.	7
Walter Beecham			Glasford, Ill.	8
K. G. Wall			R. R. No. 1, Belleville, Ill.	9
Woodrow Jones			805 Laramie St., Peoria, Ill.	10
			R. R. No. 4, Roodhouse, Ill.	11
H. N. Barnett			Sparks Hill, Ill.	12
E. J. Singley		Harvey Clark	R. R. No. 3, Marion, Ill.	13
Wilbur Mauck Chas. Haas		Wilbur Mauck	Catlin, Ill.	14
Frank Schrameck		Fred L. Hofeditz C. M. Thackston	R. R. No. 2, Collinsville, Ill.	15
George Bruketta Nicholas Bruketta		Pete Bruketta Frank Bruketta	Farmington, Ill.	16
E. J. Overbeck J. L. Bryant J. Falcetta	J. L. Bryant	Ed Klingbeil E. J. Overbeck	Springfield, Ill.	17
Walter Young	Walter Young	Walter Hensley	923 W. Main St., Carbondale, Ill.	18
	Clarence Pankey	Charles Willis	Peoria, Ill.	19
Oral Ozment			R. R. No. 2, Marion, Ill.	20
			Box 496, Ottawa, Ill.	21
Harry Buller			Breese, Ill.	22
Wesley Collins			926 W. Virginia, Peoria, Ill.	23
			709 W. Malden St., Marion, Ill.	24
Chas. Todaro			Percy, Ill.	25
Mike J. Delmastro		Lyle Gossage	142 W. Hickory St., Canton, Ill.	26
Carl Shaffer			Lewistown, Ill.	27
Granville Harris		Harvey B. Mauck	1107 N. Logan St., Danville, Ill.	28
John Connolly	Carl W. Potts	Elmer C. Miles	Lincoln, Ill.	29
Edward Joplin	Edward Joplin		Box 120, Logan, Ill.	30
Lawrence Donovan			Utica, Ill.	31
Wm. I. Davison		Wm. I. Davison	DuQuoin, Ill.	32
Stanford Robinson			Broughton, Ill.	33
Leo Lunk		Leo Lunk	Freeburg, Ill.	34
Donald Eblen			Canton, Ill.	35
Lane Bryant	Obie L. Prince James Tomlin, Jr. John Storey Lane Bryant	George Taylor D. J. Montgomery	Cantrall, Ill.	36
			Ellisville, Ill.	37
Ellis Estes		Clarence Overturf	Cutler, Ill.	38
Louis Marada Richard R. Neale James F. Stevenson	Thomas E. Baugh Richard R. Neale S. W. Williamson	Joseph E. Beeby Albert H. Denkert Carl M. Denkert	Riverton, Ill.	39
Carl Wilson		Ben Forden	542 W. Jefferson, Petersburg, Ill.	40
Oscar Fredrickson			Danville, Ill.	41
Robert Wright		Maurice Reed	R. R. No. 4, Streator, Ill.	42
Edward Joplin	Edward Joplin	Arthur L. Roach	Pinckneyville, Ill.	43
Marshel Peterson			316 Michigan, Westville, Ill.	44
Frederick A. Glore		Harry L. Fritz	Ellisville, Ill.	45
			Camden, Ill.	46
J. W. Jones		Chas. Nygren	105 W. 13th, Danville, Ill.	47
R. D. Shannon	John Gaddie	Wm. Crowe Fred Moore	Greenview, Ill.	48
Kenneth McDonald			907 Garfield St., Marion, Ill.	49
Joe Renfro		Earl Trout	Marion, Ill.	50
			Ray, Ill.	51
Clyde W. Wynn			800 N. 18th St., Herrin, Ill.	52
Virgil F. Coope		James Bell Walter Sewell	407 S. 13th St., Petersburg, Ill.	53
			Box 83, Canton, Ill.	54
			Box 83, Canton, Ill.	55
			Coal Valley, Ill.	56
			Astoria, Ill.	57

No.	Name of operator	County	Post office
58	Kedas Coal Co	Vermilion	Westville
59	Knoxville Mining Co. #2	Knox	Knoxville
60	Andrew Kollar Coal Co	LaSalle	Streator
61	L. & M. Coal Co	Fulton	Peoria
62	Lake Side Coal Co	Tazewell	Pekin
63	Lee Coal Co	Peoria	Peoria
64	Lingenfelter Coal Co. #1	Fulton	Canton
65	Lingenfelter Coal Co. #2	Fulton	Canton
66	O. W. Lightbody Coal Co	Peoria	Glasford
67	Liverpool Coal Co	Fulton	Lewistown
68	Lloyd Mine	Menard	Tallula
69	Lump Coal Co	Fulton	Cuba
70	Pete Maccanelli	Fulton	Farmington
71	Malmgren Coal Co. #2	Fulton	Glasford
72	Arthur Mart Coal Co	LaSalle	Streator
73	A. H. McCormick & Sons	Schuyler	Rushville
74	Roy E. Meyers Coal Co	LaSalle	Ottawa
75	Midwest-Radiant Corp. #1	St. Clair	Millstadt
76	Miller Mine	Warren	Mathersville
77	Millspaugh & Henshaw #1	Saline	Equality
78	Monmouth Stone Co	LaSalle	LaSalle
79	Jess R. Morgan Coal Co	Jackson	Ava
80	Morgan Coal Co	Peoria	Edwards
81	Moore & Son Coal Co	Williamson	Marion
82	Morris Coal & Mining Co	Grundy	Morris
83	No. 3 Coal Corp	Grundy	South Wilmington
84	Oak Hill Coal Co. #1	Gallatin	Junction
85	Parton Coal Co. #1	Williamson	Creal Springs
86	Parton Coal Co. #2	Williamson	Creal Springs
87	Pekin Coal Co	Gallatin	Equality
88	Phillips Coal Co	Jackson	Carbondale
89	Pine Bluff Coal Co	Fulton	Lewistown
90	Pioneer Collieries Co	Peoria	Laura
91	Pioneer Mining Co	Saline	Equality
92	Pleasant Hill Coal Co	Peoria	Peoria
93	Polinski Coal Co	Williamson	Marion
94	Purity Coal Co	St. Clair	Belleville
95	Putt Creek Coal Co., Inc	Fulton	Cuba
96	Rock & Stevenson Coal Co	Peoria	Peoria
97	Salt Fork Coal Corp. #1	Vermilion	Oakwood
98	Schubert Coal Co. #1	St. Clair	Mascoutah
99	Howard Scott Coal Co	Peoria	Glasford
100	Shawnee Coal Co	Gallatin	Harrisburg
101	Shiloh Valley Coal Co	St. Clair	Belleville
102	Spillertown Coal Co	Williamson	Marion
103	E. Sporleder Coal Service	St. Clair	Belleville
104	Streator Drain Tile Co	Livingston	Streator
105	Sun Valley Coal Co. #1	Gallatin	Eldorado
106	Superior Mining Co	Peoria	Pottstown
107	Rock Hill Coal Co	Clark	West Union
108	Treasure Coal Co	Peoria	Bartonville
109	Frank Tregoning Coal Co. #1	Williamson	Carterville
110	Triple S Mines #2	Hancock	Augusta
111	Two Rivers Coal Co	Vermilion	Danville
112	Venedy Coal Co., Inc	Washington	Venedy
113	Wenneborg Coal Co. #2	Sangamon	Sherman
114	West Side Coal Co. #1	Randolph	Sparta
115	Wheelhouse Coal Co	Schuyler	Rushville
116	Wilcox-Verna Coal Co	Menard	Petersburg
117	Wildwood Coal Co	St. Clair	Freeburg
118	Williams Coal Co	Saline	Harrisburg
119	Zaborac Coal Co	Peoria	Peoria
120	Zink Coal Co	St. Clair	Freeburg

TABLE 1A—Concluded

Mine manager	Mine examiner	Engineer	Post office address of operator	No.
Alex Kedas			Westville, Ill.	58
Pete Perardi W. Ray Bowman		Orlie E. Weaver Ralph D. Rodgers Otis Bowman George Bowman	54 S. Kellogg St., Galesburg, Ill.	59
			R. R. No. 4, Streator, Ill.	60
			R. R. No. 3, Box 164, Peoria, Ill.	61
Fred Scopecchi			Pekin, Ill.	62
Harry Price		Bert A. Briggs	1510 Ellis St., Peoria, Ill.	63
			Canton, Ill.	64
			Canton, Ill.	65
O. W. Lightbody			Glasford, Ill.	66
			Lewistown, Ill.	67
George Kern Chas. Whitehurst		Willard Whitehurst	Tallula, Ill.	68
			Cuba, Ill.	69
Simone Maccanelli			Farmington, Ill.	70
Arthur Malmgren			Glasford, Ill.	71
			Box 149, Streator, Ill.	72
Frank Katzenbecker		E. Demoss	Rushville, Ill.	73
			541 3rd Ave., Ottawa, Ill.	74
			220 N. 4th St., St. Louis, Mo.	75
			Mathersville, Ill.	76
A. H. Millspaugh			Equality, Ill.	77
			Monmouth, Ill.	78
			Sparta, Ill.	79
			2850 N. Meridian St., Indianapolis, Ind.	80
David Upchurch			904 E. Blvd., Marion, Ill.	81
			Box 311, Morris, Ill.	82
Joseph Jirus	John Corneglio	Earnest Roff	South Wilmington, Ill.	83
Roger Knickerbocker	Bernard Miles		Gen. Del., Carrier Mills, Ill.	84
Alva Handkin			Creal Springs, Ill.	85
Herman Parton			Creal Springs, Ill.	86
John Bennett	John Bennett	Emery Bennett	Equality, Ill.	87
Herbert West	Herbert West		Box 602, Carbondale, Ill.	88
Richard Fouts			R. R. No. 2, Lewistown, Ill.	89
			Laura, Ill.	90
Charles Jones	Charles Jones		Equality, Ill.	91
Wm. Towberman			R. R. No. 2, Peoria, Ill.	92
			1100 E. Main, Marion, Ill.	93
			Belleville, Ill.	94
Thomas Zaborac		Fred Payne	Cuba, Ill.	95
Clyde Stevenson			R. R. No. 2, Peoria, Ill.	96
			Oakwood, Ill.	97
Walter W. Nenninger	George A. Titze	J. W. Schubert	405 N. Market St., Mascoutah, Ill.	98
Howard Scott			Glasford, Ill.	99
Dave Bowen			108 Dayton St., Harrisburg, Ill.	100
Wesley Davis		Norman Davis	R. R. No. 2, Belleville, Ill.	101
			Marion, Ill.	102
Emil Sporleder			Belleville, Ill.	103
			Streator, Ill.	104
Willard Ingram			914 S. First St., Eldorado, Ill.	105
Lee A. Blane			1216 Grinnell St., Peoria, Ill.	106
F. J. Tierney			West York, Ill.	107
Wm. Towberman Henry G. Graber	Wm. Towberman	Simon E. Stauthammer	Bartonville, Ill.	108
Harry Carney	Harry Carney		R. R. No. 2, Carterville, Ill.	109
			Cuba, Ill.	110
George Dinsmore			Greenwood Rd., Danville, Ill.	111
Driscoll Scanlan Wendell Scanlan		William Helms Edward Scanlan	Venedy, Ill.	112
Norman Wenneborg		Wm. Ferguson	Sherman, Ill.	113
H. Beveredge	Hugh Robbins	Walker Caldwell	Sparta, Ill.	114
Richard Wheelhouse			Rushville, Ill.	115
Harold Wilcox	Deldon R. Grant	Ora Walker	Petersburg, Ill.	116
Alvin Schulte			Freeburg, Ill.	117
Wayne Milligan			R. R. No. 3, Harrisburg, Ill.	118
Joe Zaborac			Norwood Park, Peoria, Ill.	119
Philip Zink, Sr.			Box 314, Freeburg, Ill.	120

I GENERAL—TABLE 2—GENERAL STATEMENT
WITH COMPARATIVE FIGURES—1950-1954

	1954	1953	1952	1951	1950
COUNTIES AND MINES					
Number of counties producing coal	37	35	38	43	45
Number of mines operated	206	232	263	302	350
Number of shipping mines	87	97	111	136	149
Number of local mines	119	135	152	166	201
Number of shipping mines—shaft	59	68	84	103	110
Number of shipping mines—strip	28	29	27	33	39
Number of local mines—shaft	79	91	108	122	137
Number of local mines—strip	40	44	44	44	64
OUTPUT					
Output in tons, all mines	41,775,752	45,966,114	45,752,588	54,869,679	57,282,303
Output in tons, shipping mines	40,017,802	43,847,321	43,274,400	52,595,098	54,356,918
Output in tons, local mines	1,757,950	2,118,793	2,478,188	2,274,581	2,925,385
Output in tons, shipping mines—shaft	24,629,724	28,351,587	27,933,411	35,305,166	37,887,792
Output in tons, shipping mines—strip	15,388,078	15,495,734	15,340,989	17,289,932	16,469,126
Output in tons, local mines—shaft	720,496	934,191	1,103,542	1,254,543	1,754,045
Output in tons, local mines—strip	1,037,454	1,184,602	1,374,646	1,020,038	1,171,340
DISPOSITION					
Tons handled by railroads	34,805,136	38,544,560	38,392,383	47,264,705	48,595,069
Tons disposed of otherwise	6,970,616	7,421,554	7,360,205	7,604,974	8,687,234
EMPLOYEES					
Number employed underground	10,369	12,116	15,798	19,838	20,851
Number employed on surface	6,296	6,829	8,023	9,491	10,216
Total employees	16,665	18,945	23,821	29,329	31,067
DAYS					
Average days worked, shipping mines	152	153	151	158	161
Average days worked, local mines	118	124	122	122	120
MINING METHOD					
Number of mining machines in use	339	389	508	615	671
Tons undercut by machines	25,219,084	29,132,106	28,788,980	36,081,258	37,766,772
Tons mined by hand	131,136	153,672	247,973	478,451	1,875,065
Tons mined by stripping	16,425,532	16,680,336	16,715,635	18,309,970	17,640,466
LOADING					
Number of mechanical loaders in use	264	317	378	495	537
Tons loaded mechanically	24,423,248	28,011,081	27,161,125	34,142,184	36,312,604
Tons loaded by hand	206,476	340,506	772,286	1,162,982	1,575,188
EXPLOSIVES					
Kegs of powder used for blasting coal	872	1,833	8,617	10,175	10,910
Pounds of pellet powder used	259,340	395,989	1,039,175	1,770,157	3,533,043
Pounds of dynamite used	4,183,270	2,745,147	2,200,984	2,044,033	2,675,822
Pounds of permissible used	1,354,510	1,795,520	2,914,117	3,497,066	5,017,504
HAULAGE					
Number of motors used in underground haulage	609	722	958	1,156	1,128
Number of animals underground	176	244	362	433	490
CASUALTY					
Number of fatal accidents	23	28	31	154	45
Number of non-fatal accidents	736	920	1,122	1,494	1,629
Tons mined to one man killed	1,816,337	1,641,647	1,475,890	356,297	1,272,940
Tons mined to one man injured	57,622	49,963	40,778	36,727	35,164
Number employed to one man killed	725	677	768	190	690
Number employed to one man injured	23	21	21	20	19
MISCELLANEOUS					
Number of mines using closed lights	53	55	65	79	74
Number of mines using L. O. X.	2	2	2	2	1
Number of mines using Cardox	----------	----------	----------	1	2
Number of mines using Airdox	40	39	36	37	37
Number of mines using continuous Miner	3	1	3	4	4

Mines Suspending Operations During 1954 Showing Month of Last Operation

Operator	County	Month
Cantrall Coal Company	Sangamon	November
Dillard Coal Company #2	Gallatin	May
Golden Rule Coal Company	St. Clair	February
Greenview Fuel Company	Menard	February
Herkel and McDonald Coal Co. #1	Saline	May
Jones Coal Company #1	Fulton	May
Miller Brothers Coal Company, Inc. #1	Warren	April
Morroco Coal Mining Company	Grundy	June
Polinski Coal Company	Williamson	April
Sahara Coal Company #7	Saline	March
Spillertown Coal Company	Williamson	April
Strobel Coal Company #2	Williamson	March
Wenneborg Coal Company	Sangamon	May

Mines Abandoned During 1954 Showing Month of Last Operation

Operator	County	Month
Green Top Coal Company	Vermilion	August
Groom Coal Company	St. Clair	November
Little Coal Company, Inc. #1	Knox	June
Liverpool Coal Company	Fulton	July
Longview Coal Company #1	Henry	October
Monmouth Stone and Coal Company	LaSalle	May
Morgan Mines, Inc. "Stitzel Pit"	St. Clair	September
Nokomis Coal Company #1	Montgomery	February
Number Three Coal Corp	Grundy	November
Oak Coal Company	St. Clair	May
Oak Grove Coal Company	Williamson	May
Oak Hill Coal Company #1	Gallatin	May
Old Ben Coal Corp. #11	Franklin	May
Old Ben Coal Corp. #15	Franklin	January
Peabody Coal Company #8	Christian	July
Peabody Coal Company #14	Perry	February
Peabody Coal Company #40	Saline	March
Regenhardt and Southern Const. Company	Saline	April
Rice Lake Coal Company	Fulton	January
Shawnee Coal Company #1	Gallatin	May
Superior Coal Company #4	Macoupin	May
St. Louis & O'Fallon Coal Company #2	St. Clair	June
Treasure Coal Company	Peoria	September
Troy Domestic Coal Company	Madison	November

II *Production*

II PRODUCTION—TABLE 3—AVERAGE MAN-DAY PRODUCTION—SHIPPING MINES

County	Reports tabulated	Man-days	Tons mined	Per cent of mines reported	Average tons per man-day
BUREAU COUNTY—					
Shaft mines					
Strip mines	1	34,403	698,964	100%	20.3
CHRISTIAN COUNTY—					
Shaft mines	3	353,045	5,404,085	100%	15.3
Strip mines					
CLINTON COUNTY—					
Shaft mines	1	15,757	55,857	100%	3.5
Strip mines					
DOUGLAS COUNTY—					
Shaft mines	1	19,088	250,380	100%	13.1
Strip mines					
FRANKLIN COUNTY—					
Shaft mines	6	455,149	4,321,775	100%	9.5
Strip mines					
FULTON COUNTY—					
Shaft mines	1	4,387	28,907	100%	6.6
Strip mines	7	208,513	4,819,256	100%	23.1
HENRY COUNTY—					
Shaft mines	1	3,242	23,821	100%	7.3
Strip mines					
JACKSON COUNTY—					
Shaft mines	3	38,637	485,831	100%	12.6
Strip mines	1	27,459	604,927	100%	22.0
JEFFERSON COUNTY—					
Shaft mines	1	94,920	1,579,296	100%	16.6
Strip mines					
KANKAKEE COUNTY—					
Shaft mines					
Strip mines	1	46,861	834,905	100%	17.8
KNOX COUNTY—					
Shaft mines	1	896	3,304	100%	3.7
Strip mines	3	80,922	1,778,828	100%	22.0
MACOUPIN COUNTY—					
Shaft mines	3	65,228	503,142	100%	7.7
Strip mines					
MADISON COUNTY—					
Shaft mines	3	121,809	989,125	100%	8.1
Strip mines					
MARION COUNTY—					
Shaft mines	1	8,610	69,382	100%	8.1
Strip mines					
MONTGOMERY COUNTY—					
Shaft mines	1	115,955	1,600,716	100%	13.8
Strip mines					
PERRY COUNTY—					
Shaft mines	5	102,554	1,416,011	100%	13.8
Strip mines	3	76,214	1,869,974	100%	24.5
RANDOLPH COUNTY—					
Shaft mines	2	53,776	837,711	100%	15.6
Strip mines	2	29,217	793,129	100%	27.1
ST. CLAIR COUNTY—					
Shaft mines	5	104,014	1,488,763	100%	14.3
Strip mines	2	24,078	797,926	100%	33.1
SALINE COUNTY—					
Shaft mines	5	142,801	1,563,702	100%	11.0
Strip mines	2	39,780	576,612	100%	14.5
VERMILION COUNTY—					
Shaft mines	1	4,294	42,849	100%	10.0
Strip mines	1	25,971	720,373	100%	27.7
WASHINGTON COUNTY—					
Shaft mines	1	3,458	10,537	100%	3.0
Strip mines					
WILL COUNTY—					
Shaft mines					
Strip mines	1	6,116	135,181	100%	22.1
WILLIAMSON COUNTY—					
Shaft mines	14	327,916	3,954,530	100%	12.0
Strip mines	4	63,191	1,758,003	100%	27.8

II PRODUCTION—TABLE 4—OUTPUT OF SHIPPING MINES BY MONTHS—1949-1954

Months	1949	1950	1951	1952	1953	1954
January	5,302,583	3,481,031	5,904,203	5,159,565	4,179,636	4,051,563
February	5,376,106	1,184,342	4,584,539	4,171,295	3,499,271	3,131,380
March	3,687,749	5,807,136	4,543,916	3,681,763	3,691,493	3,528,964
April	4,217,660	4,548,720	4,114,858	3,100,687	3,377,286	2,695,905
May	4,066,131	4,596,805	3,737,067	2,889,250	3,073,171	2,721,569
June	3,361,595	4,883,921	4,056,998	2,932,936	3,121,058	2,744,987
July	2,815,928	3,353,163	2,869,510	2,240,330	3,010,408	2,474,785
August	3,878,469	5,214,570	4,179,653	2,802,265	3,523,202	3,043,435
September	2,118,405	5,056,404	4,082,976	4,471,385	3,893,737	3,396,713
October	1,319,673	5,339,322	4,909,766	3,217,011	4,088,461	3,774,869
November	4,966,848	5,287,110	4,085,328	3,972,400	3,820,722	4,028,565
December	3,661,470	5,604,394	4,526,284	4,635,513	4,568,876	4,425,067
Total	44,772,617	54,356,918	52,595,098	43,274,400	43,847,321	40,017,802

II PRODUCTION—TABLE 5—NUMBER OF SHIPPING MINES OPERATED AND AVERAGE DAYS WORKED EACH MONTH—1949-1954

Months	1949		1950		1951		1952		1953		1954	
	Mines	Days	Mines	Days	Mines	Days	Mines	Days	Mines	Days	Mines	Days
January	136	18	138	15	129	20	116	19	92	17	86	17
February	134	18	127	8	127	17	114	14	92	14	85	14
March	134	13	140	19	122	15	99	15	87	15	79	15
April	121	13	126	14	117	14	90	13	80	13	75	11
May	116	13	111	15	104	13	82	12	73	13	68	12
June	115	12	105	16	104	14	80	13	70	13	67	12
July	107	10	111	12	104	11	80	11	76	13	67	11
August	118	13	122	18	109	17	85	14	84	14	71	14
September	121	10	131	17	118	15	92	18	82	16	72	16
October	46	21	132	19	116	19	93	14	81	17	75	17
November	138	17	133	18	116	19	94	16	86	16	77	18
December	140	15	135	19	115	18	95	18	87	18	76	20

II PRODUCTION—TABLE 6—RELATIVE RANK OF COUNTIES PRODUCING 500,000 TONS OR MORE—1950-1954

County	Rank	1954	Rank	1953	Rank	1952	Rank	1951	Rank	1950
Williamson	1	5,823,867	3	5,513,246	2	5,751,861	4	5,457,293	5	4,776,775
Christian	2	5,404,085	1	6,722,124	4	5,070,072	1	8,183,437	2	8,375,600
Fulton	3	4,957,915	2	6,063,002	1	5,775,756	3	6,274,275	3	6,090,779
Franklin	4	4,321,775	4	4,588,891	3	5,305,997	2	7,955,001	1	9,154,688
Perry	5	3,289,295	5	3,996,200	5	4,044,341	5	4,564,883	4	4,923,345
St. Clair	6	2,844,064	6	3,507,536	6	3,475,548	6	3,779,695	7	3,740,236
Saline	7	2,170,617	7	2,976,213	7	2,996,317	7	3,308,127	6	3,816,949
Knox	8	1,810,964	11	1,125,720	14	1,054,043	12	1,375,736	12	1,331,892
Randolph	9	1,636,830	9	1,378,637	9	1,402,846	9	1,671,363	9	1,689,421
Montgomery	10	1,600,716	8	1,632,211	13	1,140,994	17	700,974	17	746,046
Jefferson	11	1,579,296	10	1,369,093	10	1,253,526	15	912,073	----	------------
Jackson	12	1,099,071	12	1,089,287	11	1,228,899	10	1,494,440	13	1,208,290
Madison	13	995,162	14	1,032,078	12	1,228,392	11	1,419,589	11	1,489,645
Kankakee	14	834,905	16	840,927	16	871,379	16	857,916	----	------------
Vermilion	15	813,285	15	849,754	15	963,458	13	1,057,932	16	759,333
Bureau	16	698,964	----	------------	----	------------	----	------------	----	------------
Macoupin	17	503,142	13	1,044,091	8	1,716,224	8	2,361,673	8	3,301,308
Henry	18	------------	17	746,882	17	813,621	14	953,868	15	866,948

II PRODUCTION—TABLE 7—TONS OF COAL PRODUCED, AVERAGE DAYS WORKED, NUMBER OF MINES OPERATED, AND NUMBER OF EMPLOYEES IN ALL SHIPPING MINES, WITH PERCENTAGES BY YEARS FROM 1920 TO 1954 INCLUSIVE

Years	All shipping mines				Strip mines				Percentage of strip mines		
	Number of—		Average days worked	Tons produced	Number of—		Average days worked	Tons produced			
	Mines	Men			Mines	Men			Mines	Men	Total
1920	373	85,037	176	72,409,610	3	217	149	367,009	0.08	0.25	0.57
1921	389	92,080	174	78,339,082	3	242	183	437,006	0.08	0.26	0.56
1922	352	93,681	127	61,406,093	5	446	134	533,923	1.42	0.48	0.87
1923	374	99,081	146	73,410,837	6	412	180	895,608	1.60	0.42	1.22
1924	338	85,499	139	70,324,363	11	611	155	1,184,288	3.25	0.64	1.68
1925*	255	77,629	231	100,012,299	18	1,181	264	4,722,597	7.06	1.52	4.72
1926	244	73,497	155	67,836,441	16	1,203	176	3,482,611	6.56	1.64	5.13
1927	241	74,117	112	44,926,433	15	1,139	138	2,756,410	6.22	1.54	6.14
1928	206	61,154	152	54,284,184	14	1,149	206	4,113,908	6.80	1.88	7.58
1929	200	54,721	162	59,075,995	17	1,518	176	5,250,501	8.50	2.77	8.89
1930	185	51,215	145	51,996,608	15	1,519	181	6,220,336	8.11	2.97	11.96
1931	167	47,024	130	43,073,058	15	1,591	164	6,576,677	8.92	3.38	15.27
1932	162	44,078	107	31,402,399	17	1,769	163	6,628,228	10.50	4.00	21.11
1933	159	40,660	131	35,390,677	20	1,890	131	5,599,006	12.58	4.65	15.82
1934	172	40,943	147	38,655,527	26	2,042	134	6,008,218	15.12	4.99	15.54
1935	182	40,496	147	41,410,414	28	2,338	148	7,088,104	15.38	5.77	17.72
1936	176	40,011	153	47,285,587	30	2,803	141	8,873,299	17.04	7.00	18.16
1937	168	38,553	152	48,062,076	30	3,133	152	11,176,074	17.85	8.12	23.25
1938	149	35,247	135	38,442,859	25	2,881	153	10,058,999	16.77	8.17	26.16
1939	146	33,034	148	42,994,107	26	2,854	170	11,295,547	17.80	8.63	26.27
1940	139	29,695	140	46,071,806	27	2,873	176	12,024,635	18.7	9.6	26.1
1941	143	30,258	168	51,033,319	30	3,169	175	13,367,089	20.9	10.4	26.1
1942	141	30,022	201	61,124,628	28	3,495	209	15,937,681	20.5	11.8	26.1
1943	141	28,753	241	68,971,621	26	3,431	212	15,484,712	18.0	11.9	22.0
1944	157	29,010	230	73,958,923	31	3,730	204	17,108,528	19.7	12.8	23.1
1945	159	28,198	224	70,322,301	37	3,481	198	16,203,763	23.2	12.3	22.0
1946	160	29,745	196	60,932,785	36	3,479	166	14,302,739	22.7	11.7	23.5
1947	160	29,594	220	64,612,627	38	3,702	208	17,827,339	22.	12.5	27.4
1948	160	29,803	186	62,494,412	45	4,064	172	16,758,306	28.1	13.6	26.8
1949	157	28,520	133	44,772,617	45	4,248	120	12,835,980	28.6	14.9	28.6
1950	149	28,246	161	54,356,918	39	3,729	151	16,469,126	26.1	13.2	30.3
1951	136	26,936	158	52,595,098	33	3,429	191	17,289,932	24.3	12.7	32.9
1952	111	21,674	151	43,274,400	27	3,066	175	15,340,989	24.3	14.1	35.5
1953	97	17,201	153	43,847,321	29	3,076	168	15,495,734	29.9	17.8	35.3
1954	87	15,252	152	40,017,802	28	2,889	168	15,388,078	32.2	18.8	38.5

* From July 1, 1924 to December 31, 1925.

II PRODUCTION—TABLE 8—MINES AND PRODUCTION

	1953		1954		Increase (+) Decrease (—)		Per cent of Increase (+) Decrease (—)	
	Mines	Tons	Mines	Tons	Mines	Tons	Mines	Tons
Shipping mines	97	43,847,321	87	40,017,802	—10	—3,829,519	—10.3	—8.7
Local mines	135	2,118,793	119	1,757,950	—16	—360,843	—11.9	—17.0
Total	232	45,966,114	206	41,775,752	—26	—4,190,362	—11.2	—9.1

II PRODUCTION—TABLE 9—OUTPUT OF SHIPPING MINES

Mine index number	Name of operator	Name, number or letter of shaft	Post office address of mine	Number of days in operation and tons of coal mined							
				January		February		March		April	
				Days	Tons	Days	Tons	Days	Tons	Days	Tons
	BUREAU COUNTY										
S-11	Midland Electric Coal Corp	No. 1	Atkinson	23	72,097	16	46,186	22	60,643	17	50,621
	CHRISTIAN COUNTY										
S-3	Peabody Coal Co	No. 8	Tovey	10	109,001	4	43,743	13	145,434	9	101,703
S-7	Peabody Coal Co	No. 17	Pana	14	138,995	11	113,859	18	182,544	12	124,634
S-8	Peabody Coal Co	No. 10	Pawnee	15	187,888	10	132,986	18	237,000	12	163,297
	Average days and total tons			13	435,884	8	290,588	16	564,978	11	389,634
	CLINTON COUNTY										
S-3	Breese Coal Co., Inc	North Breese	Breese	18	6,588	13	4,686	12	4,524	10	3,978
	DOUGLAS COUNTY										
S-1	Bell & Zoller Coal Co	Murdock	Murdock	25	27,374	15	19,190	19	24,335	16	20,078
	FRANKLIN COUNTY										
S-3	Chicago, Wilmington & Franklin Coal Co	Orient No. 1	Orient	20	66,927	12	42,593	19	72,047	19	69,181
S-4	Chicago, Wilmington & Franklin Coal Co	Orient No. 2	West Frankfort	19	119,024	14	89,785	--	---------	--	---------
S-10	Old Ben Coal Corp	No. 14	Buckner	18	98,870	12	68,113	--	---------	--	---------
S-11	Old Ben Coal Corp	No. 15	West Frankfort	7	14,234	--	---------	--	---------	--	---------
S-14	Old Ben Coal Corp	No. 22	Valier	13	54,960	11	48,709	13	55,079	8	33,006
S-20	Old Ben Coal Corp	No. 9	West Frankfort	18	160,274	15	118,140	16	130,128	13	94,929
	Average days and total tons			16	514,289	13	367,340	16	257,254	13	197,116
	FULTON COUNTY										
S-2	Little Sister Coal Corp		St. David	17	60,422	11	42,598	18	70,536	12	48,195
S-10	Pschirrer Coal Co	No. 3	Canton	17	6,220	10	3,269	11	4,367	4	1,053
S-13	Truax-Traer Coal Co	Red Ember	Fiatt	17	109,480	13	85,215	17	109,785	15	97,257
S-14	The United Electric Coal Cos	No. 9	Cuba	19	79,281	18	75,418	16	66,271	15	62,402
S-15	The United Electric Coal Cos	"Buckheart" No. 17	Canton	21	87,771	11	43,430	24	88,256	13	60,977
S-39	Morgan Mines, Inc	Morgan-Bryant	Lewistown	14	19,549	9	15,838	13	17,934	14	19,441
S-40	Fairview Collieries Corp	Flamingo	Fairview	12	47,225	12	46,238	15	57,801	13	44,935
S-41	Key Coal Co		Astoria	13	31,457	11	33,806	15	42,218	12	34,659
	Average days and total tons			16	441,405	12	345,812	16	457,168	12	368,919
	HENRY COUNTY										
L-198	Alpha Coal Co		Alpha	22	5,079	21	2,021	24	2,357	22	1,418

AND DAYS WORKED EACH MONTH IN 1954

Number of days in operation and tons of coal mined																		Mine index number
May		June		July		August		September		October		November		December		Total		
Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	
16	45,282	18	53,149	16	50,671	20	58,586	20	61,523	19	55,056	20	60,964	26	84,186	233	698,964	S-11
11	127,845	11	130,807	10	118,911	--	---------	--	---------	--	---------	--	---------	--	---------	68	777,444	S-3
15	152,383	14	142,625	12	122,830	18	189,823	18	188,805	18	184,802	20	210,462	22	228,956	192	1,980,718	S-7
14	184,408	13	170,055	12	160,078	18	253,355	19	263,133	19	257,933	20	284,087	23	351,703	193	2,645,923	S-8
13	464,636	13	443,487	11	401,819	18	443,178	18	451,938	19	442,735	20	494,549	22	580,659	151	5,404,085	
7	2,898	11	3,740	8	2,713	11	4,007	12	4,462	16	5,497	17	5,880	17	6,884	152	55,857	S-3
16	16,063	18	19,263	12	13,702	14	16,200	13	15,739	15	19,255	21	26,888	26	32,293	210	250,380	S-1
17	61,286	10	36,871	9	33,004	15	56,643	20	73,404	20	71,739	19	67,241	20	69,347	200	720,283	S-3
12	77,747	10	66,090	8	52,382	14	90,562	19	124,242	20	130,964	19	120,875	16	103,087	151	974,758	S-4
--	---------	--	---------	--	---------	22	65,307	20	67,598	21	84,307	19	83,321	20	87,390	132	554,906	S-10
--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	7	14,234	S-11
6	27,240	6	25,973	7	30,956	8	36,314	16	64,561	18	78,261	20	88,867	18	80,147	144	624,073	S-14
11	89,927	12	102,384	12	85,783	13	91,752	16	114,850	20	147,043	20	147,934	18	150,377	184	1,433,521	S-20
12	256,200	10	231,318	9	202,125	15	340,578	18	444,655	20	512,314	19	508,238	18	490,348	136	4,321,775	
12	48,651	12	50,390	11	43,491	13	51,855	12	46,782	14	51,929	15	59,897	21	83,956	168	658,702	S-2
--	---------	--	---------	--	---------	7	1,347	16	3,134	16	3,445	8	1,903	18	4,169	107	28,907	S-10
14	96,400	14	91,373	13	82,425	15	94,104	15	100,080	19	119,211	21	137,276	23	154,507	196	1,277,113	S-13
11	43,673	13	53,407	19	78,824	17	71,678	9	37,747	11	45,770	21	87,365	24	100,665	193	802,501	S-14
12	53,441	14	65,017	6	23,532	20	64,386	21	92,808	19	89,368	23	110,010	25	119,914	209	898,910	S-15
11	18,450	13	19,423	7	10,234	9	14,817	10	13,634	6	10,434	1	4,252	--	---------	107	164,006	S-39
8	34,382	12	52,344	10	36,809	11	40,673	13	49,479	12	32,664	16	52,694	22	82,752	156	577,996	S-40
15	36,042	13	30,634	11	27,967	12	28,970	12	34,904	17	51,127	16	44,051	16	44,193	163	440,028	S-41
12	331,039	13	362,588	11	303,282	13	367,830	14	378,568	14	403,948	15	497,448	21	590,156	162	4,848,163	
18	857	15	308	13	22	16	88	21	1,218	24	2,638	22	3,326	26	4,489	244	23,821	L-198

Mine index number	Name of operator	Name, number or letter of shaft	Post office address of mine	Number of days in operation and tons of coal mined							
				January		February		March		April	
				Days	Tons	Days	Tons	Days	Tons	Days	Tons
	JACKSON COUNTY										
S-1	Truax-Traer Coal Co	No. 1 "Drift"	Elkville	21	40,864	17	33,420	17	35,861	12	23,715
S-1	Truax-Traer Coal Co	No. 1 "Strip"	Elkville	18	60,255	17	55,075	17	56,045	12	40,284
L-28	Joliana Coal Mining Co		Elkville	19	14,017	11	8,833	11	8,652	9	6,831
L-28	Elk Coal Co		Elkville	--	---------	--	---------	--	---------	--	---------
L-54	Co-op Coal Co	No. 1	Carbondale	--	---------	--	---------	--	---------	--	---------
	Average days and total tons			19	115,136	15	97,328	15	100,558	11	70,830
	JEFFERSON COUNTY										
S-3	Chicago, Wilmington & Franklin Coal Co	No. 3	Waltonville	20	144,189	15	108,536	18	147,677	20	153,274
	KANKAKEE COUNTY										
S-1	Northern Illinois Coal Corp	No. 14	Wilmington	22	75,703	18	65,197	21	73,212	17	62,290
	KNOX COUNTY										
S-2	Stonefort Corporation	Little John	Victoria	15	38,388	9	25,689	13	32,332	6	15,021
S-3	Midland Electric Coal Corp	"Rapatee" Strip No. 1	Farmington	17	55,834	14	46,253	20	66,231	18	55,369
S-3	Midland Electric Coal Corp	"Middle Grove" Strip No. 2	Farmington	23	62,308	19	54,902	23	66,269	19	51,637
L-4	Little Coal Co		Farmington	18	1,147	12	836	17	712	17	609
	Average days and total tons			18	157,677	13	127,680	18	165,544	15	122,636
	MACOUPIN COUNTY										
S-3	Little Dog Coal Co		Gillespie	18	26,147	14	21,723	14	21,351	13	17,360
S-9	Superior Coal Co	No. 4	Gillespie	16	53,639	13	44,422	10	33,412	9	30,872
S-10	Virden Mining Corp	"North"	Virden	13	8,536	5	2,921	7	8,405	10	5,810
	Average days and total tons			16	88,322	11	69,066	10	63,168	11	54,042
	MADISON COUNTY										
S-3	The Livingston-Mt. Olive Coal Co	No. 1	Livingston	21	17,437	11	10,596	15	14,042	4	3,721
S-6	Mt. Olive & Staunton Coal Co	No. 2	Staunton	16	42,202	15	38,349	15	40,293	8	21,347
S-7	Lumaghi Coal Co	No. 4	Collinsville	18	58,056	14	44,887	14	47,356	7	24,372
	Average days and total tons			18	117,695	13	93,832	15	101,691	6	49,440
	MARION COUNTY										
S-1	Marion County Coal Mining Corp	"Glenridge"	Centralia	18	14,407	15	12,592	18	14,391	6	4,033
	MONTGOMERY COUNTY										
S-4	Freeman Coal Mining Corp	"Crown"	Farmersville	18	158,530	15	135,011	17	147,327	11	107,259

TABLE 9—Continued

Number of days in operation and tons of coal mined																		Mine index number
May		June		July		August		September		October		November		December		Total		
Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	
11	29,252	12	25,111	14	26,776	16	31,489	15	33,932	17	39,544	20	46,135	19	47,264	191	413,363	S-1
12	37,369	13	45,423	12	36,808	14	43,154	16	53,041	17	56,975	20	64,299	19	56,199	187	604,927	S-1
--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	50	38,333	L-28
--	---------	--	---------	--	---------	16	4,266	19	6,019	24	6,803	23	6,402	24	9,314	106	32,804	L-28
--	---------	--	---------	--	---------	--	---------	--	---------	15	253	12	310	16	768	43	1,331	L-54
11	66,621	13	70,534	13	63,584	15	78,909	16	92,992	18	103,575	21	117,146	19	113,545	115	1,090,758	
19	147,332	17	122,075	17	114,607	19	119,513	20	128,048	20	134,166	19	117,460	22	142,419	226	1,579,296	S-3
16	56,462	16	55,369	14	51,408	17	59,671	22	77,673	23	74,828	23	87,080	26	96,012	235	834,905	S-1
7	17,184	12	32,056	8	23,822	10	27,358	11	32,831	15	37,583	15	38,258	18	43,460	139	363,982	S-2
15	46,442	23	76,651	18	57,732	22	69,313	24	76,085	25	70,694	24	66,280	26	75,521	246	762,405	S-3
21	52,682	20	54,459	18	45,009	19	47,783	19	49,750	22	56,707	24	55,258	25	55,677	252	652,441	S-3
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14	116,308	18	163,166	15	126,563	17	144,454	18	158,666	21	164,984	21	159,796	23	174,658	175	1,782,132	
10	15,518	10	15,392	7	10,820	13	20,643	13	18,754	12	18,811	18	28,813	21	31,644	163	246,976	S-3
5	16,561	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	53	178,906	S-9
9	5,308	7	4,483	9	5,577	8	4,643	12	7,435	14	8,806	12	7,485	13	7,851	119	77,260	S-10
8	37,387	9	19,875	8	16,397	10	25,286	13	26,189	13	27,617	15	36,298	17	39,495	112	503,142	
4	3,388	7	5,407	2	1,863	3	2,648	8	5,844	11	7,315	17	11,978	15	10,737	118	94,976	S-3
9	22,789	10	25,070	7	17,653	13	34,103	13	33,081	14	34,369	18	45,520	19	49,074	157	403,850	S-6
5	18,665	6	21,903	7	25,121	10	36,959	13	44,054	16	52,561	17	52,562	20	63,803	147	490,299	S-7
6	44,842	8	52,380	5	44,637	9	73,710	11	82,979	14	94,245	17	110,060	18	123,614	141	989,125	
2	1,169	1	402	--	---------	--	---------	--	---------	6	6,712	19	7,099	20	8,577	102	69,382	S-1
13	123,192	13	118,863	13	112,614	13	118,972	15	125,994	15	136,703	17	149,215	18	167,036	178	1,600,716	S-4

Mine index number	Name of operator	Name, number or letter of shaft	Post office address of mine	Number of days in operation and tons of coal mined							
				January		February		March		April	
				Days	Tons	Days	Tons	Days	Tons	Days	Tons
	PERRY COUNTY										
S-2	Service Coal Co	No. 6	Pinckneyville	1	20	15	723	7	470	--	---------
S-5	Big 5 Coal Co	----------	Conant	16	1,467	14	1,087	20	1,740	5	382
S-6	Peabody Coal Co	No. 14	DuQuoin	11	41,404	8	26,446	--	---------	--	---------
S-8	Cutler Coal Co., Inc	----------	Cutler	11	4,056	12	4,612	10	4,142	9	3,561
S-13	Truax-Traer Coal Co	"Pyramid"	Pinckneyville	12	38,064	10	32,228	10	31,808	8	24,182
S-14	The United Electric Coal Cos	"Fidelity" No. 11	DuQuoin	16	86,135	13	77,298	17	76,329	16	67,130
S-32	Union Colliery Co	"New Kathleen"	DuQuoin	19	105,002	20	108,185	22	119,490	20	104,359
S-33	Truax-Traer Coal Co	No. 2	Pinckneyville	10	41,033	7	32,108	9	35,035	7	31,207
	Average days and total tons	----------	---------------	12	317,181	12	282,687	14	269,014	11	230,821
	RANDOLPH COUNTY										
S-7	Southwestern Illinois Coal Corp	"Streamline"	Percy	15	61,091	13	55,981	15	65,406	11	47,778
S-15	Moffat Coal Co	----------	Sparta	20	39,896	13	26,398	12	25,750	5	10,187
S-17	Midwest Utilities Coal Corp	"Bradbury"	Sparta	11	23,424	10	24,459	13	32,317	14	35,951
S-18	Ritter Coal Co	"Red Fox" No. 3	Sparta	18	5,780	8	4,055	8	3,775	2	1,121
	Average days and total tons	----------	---------------	16	130,191	11	110,893	12	127,248	8	95,037
	ST. CLAIR COUNTY										
S-3	Golden Rule Coal Co	----------	Lenzburg	7	799	2	206	--	---------	--	---------
S-10	Perry Coal Co	"St. Ellen"	O'Fallon	21	106,299	17	82,206	15	76,115	10	41,487
S-13	St. Louis & O'Fallon Coal Co	"Black Eagle" No. 2	Belleville	16	21,388	18	19,788	17	21,195	14	26,046
S-93	Seminole Coal Corp	No. 17	Lenzburg	18	82,991	11	48,881	10	46,066	13	51,093
L-15	New West Side Coal Co., Inc	No. 1087	Marissa	22	3,525	20	3,736	4	785	--	---------
L-87	Mid-Continent Coal Corp	"Green Diamond"	Marissa	18	50,760	14	41,352	18	49,839	12	34,528
L-92	Morgan Mines, Inc	"Wolz-Baltz Pit"	Millstadt	22	19,177	16	13,102	16	13,770	14	9,018
	Average days and total tons	----------	---------------	18	284,939	14	209,271	13	207,770	13	162,172
	SALINE COUNTY										
S-1	Sahara Coal Co., Inc	No. 6	Harrisburg	11	35,881	10	36,535	13	50,567	11	40,028
S-16	Sahara Coal Co., Inc	No. 5	Harrisburg	19	22,836	15	20,066	14	20,192	10	16,397
S-39	Sahara Coal Co., Inc	No. 16	Harrisburg	19	42,320	14	32,674	14	34,094	10	26,087
S-40	Sahara Coal Co., Inc	No. 7	Harrisburg	20	28,560	14	20,719	--	---------	--	---------
S-43	Peabody Coal Co	No. 43	Harrisburg	21	99,470	13	63,955	16	76,783	10	29,518
S-46	Peabody Coal Co	No. 40	Galatia	21	62,785	12	39,571	4	13,298	--	---------
S-50	Saxton Coal Corp	"New Castle" No. 2	Carrier Mills	26	8,830	27	7,680	23	7,872	21	9,647
	Average days and total tons	----------	---------------	20	300,682	15	221,200	14	202,806	12	121,677

TABLE 9—Continued

Number of days in operation and tons of coal mined																		Mine index number
May		June		July		August		September		October		November		December		Total		
Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	
--	---------	--	---------	--	---------	--	---------	--	---------	3	110	14	658	18	1,141	58	3,122	S-2
--	---------	--	---------	--	---------	4	353	5	372	11	976	14	1,049	15	1,190	104	8,616	S-5
--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	19	67,850	S-6
6	1,505	8	2,646	8	2,934	6	2,168	4	1,396	8	3,210	12	3,721	9	3,369	103	37,320	S-8
7	20,055	10	28,266	12	36,843	13	36,188	16	41,599	17	49,061	15	41,582	14	36,303	144	416,179	S-13
9	50,458	11	56,236	7	32,808	17	88,801	19	99,750	20	102,390	22	103,695	17	78,327	184	919,357	S-14
20	106,285	19	102,231	15	81,844	22	112,380	21	111,966	21	117,620	20	110,529	21	119,212	240	1,299,103	S-32
6	26,209	9	33,409	10	44,241	12	50,581	14	59,780	15	69,098	14	56,187	15	55,550	128	534,438	S-33
10	204,512	11	222,788	10	198,670	12	290,471	13	314,863	13	342,465	16	317,421	16	295,092	123	3,285,985	
9	39,376	10	41,860	10	42,801	13	56,780	14	62,613	20	89,309	19	82,102	26	114,885	175	759,982	S-7
7	14,165	8	16,035	6	11,748	12	25,113	11	22,927	17	31,499	18	34,574	19	37,120	148	295,412	S-15
19	49,049	18	53,637	19	55,864	20	57,910	18	55,391	16	48,508	13	40,524	22	65,265	193	542,299	S-17
--	---------	3	1,055	2	995	2	770	3	964	10	3,952	12	4,959	14	5,721	82	33,147	S-18
12	102,590	10	112,587	9	111,408	12	140,573	12	141,895	16	173,268	15	162,159	20	222,991	150	1,630,840	
--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	9	1,005	S-3
18	48,874	19	53,081	13	35,760	18	47,840	19	45,828	18	45,808	20	94,407	23	113,824	211	791,529	S-10
13	24,041	14	31,159	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	92	143,617	S-13
13	39,071	15	41,830	16	38,841	14	34,215	18	46,630	23	59,891	20	87,326	17	88,858	188	665,693	S-93
--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	10	834	26	2,692	82	11,572	L-15
10	26,856	13	37,103	14	37,798	13	37,705	12	36,872	17	52,014	22	62,512	25	73,701	188	541,040	L-87
11	5,562	6	4,113	5	3,245	9	4,578	13	8,083	18	13,960	17	16,843	23	20,782	170	132,233	L-92
13	144,404	13	167,286	12	115,644	13	124,338	15	137,413	19	171,673	18	261,922	23	299,857	134	2,286,689	
11	34,654	9	31,261	4	14,013	12	39,627	11	39,603	12	40,706	14	49,849	13	41,327	131	454,051	S-1
13	23,850	12	21,710	14	25,992	14	27,704	20	40,653	21	41,378	20	37,308	21	42,903	193	340,989	S-16
12	32,131	12	30,573	15	32,388	14	31,367	21	42,706	21	42,290	20	45,175	22	51,583	194	443,388	S-39
--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	34	49,279	S-40
12	35,054	7	21,548	6	16,922	10	29,033	13	40,641	20	62,932	22	69,977	21	68,559	171	614,392	S-43
--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	37	115,654	S-46
22	11,239	19	8,928	22	11,294	26	8,552	23	9,334	23	12,430	21	11,906	24	14,849	277	122,561	S-50
14	136,928	12	114,020	12	100,609	15	136,283	18	172,937	20	199,736	20	214,215	20	219,221	148	2,140,314	

Mine index number	Name of operator	Name, number or letter of shaft	Post office address of mine	Number of days in operation and tons of coal mined							
				January		February		March		April	
				Days	Tons	Days	Tons	Days	Tons	Days	Tons
	VERMILION COUNTY										
S-61	Fairview Collieries Corp	"Harmatan"	Danville	21	94,517	18	81,387	20	83,057	13	55,599
L-20	V-Day Coal Co		Danville	22	7,320	18	5,027	20	6,186	13	3,591
	Average days and total tons			21	101,837	18	86,414	20	89,243	13	59,190
	WASHINGTON COUNTY										
S-3	Bois Coal Co	"Kuhn"	DuBois	24	3,574	16	2,128	--	---------	--	---------
	WILL COUNTY										
S-3	Wilmington Coal Mining Corp		Braidwood	14	14,488	8	9,614	14	14,588	10	9,550
	WILLIAMSON COUNTY										
S-4	Delta Collieries Corp		Marion	14	48,841	15	53,265	13	48,774	11	40,784
S-83	Bell & Zoller Coal Co	"Buckhorn"	Johnston City	20	71,434	15	74,445	13	67,033	11	58,366
S-87	Forsyth-Carterville Coal Co		Carterville	11	13,360	11	15,928	9	12,321	6	8,935
S-88	Bell & Zoller Coal Co	No. 3	Zeigler	18	87,745	11	58,057	10	55,974	5	27,777
S-89	Blue Bird Coal Co	No. 7	Harrisburg	20	41,092	12	28,473	13	30,866	10	24,038
S-92	Morgan Mines, Inc		Herrin	25	45,758	17	33,232	19	35,303	15	27,245
S-93	Freeburn Mining Co	No. 3	Marion	18	70,001	16	53,608	18	66,848	19	81,867
S-94	Carmac Coal Co		Marion	17	38,386	13	27,900	15	33,790	10	22,247
S-96	Blue Bird Coal Co	No. 8	Harrisburg	18	7,425	13	6,092	17	6,184	10	4,238
S-99	Freeman Coal Mining Corp	No. 4	Marion	18	61,710	14	37,959	12	42,751	9	35,001
S-100	Stonefort Corporation	"Will Scarlet"	Stonefort	7	11,198	8	13,038	7	13,500	10	22,270
L-169	Strobel Coal Co		Marion	14	264	10	999	4	69	--	---------
L-175	C & C Coal Co		Marion	20	3,494	16	1,812	19	1,515	2	109
L-190	New Black Crystal Coal Co		Marion	20	5,082	18	4,407	20	3,578	3	874
L-195	Harrisburg Coal Co		Marion	21	3,082	20	4,087	19	3,062	18	3,108
L-199	Wilkins Coal Co	"New Spillerton"	Marion	20	5,242	18	4,111	21	4,719	5	1,032
L-200	Pure Coal Co		Marion	20	4,696	18	3,585	22	3,991	14	2,730
L-201	New Black Diamond Coal Co		Marion	20	5,486	14	3,110	20	3,190	5	1,269
	Average days and total tons			18	524,296	14	424,108	15	433,468	10	361,890
	Grand total			17	4,051,563	14	3,131,380	15	3,528,964	11	2,695,905

TABLE 9—Concluded

Number of days in operation and tons of coal mined																				Mine index number
May		June		July		August		September		October		November		December		Total				
Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons	Days	Tons			
10	45,096	9	38,167	10	41,235	9	39,246	10	46,921	13	55,584	18	71,698	17	67,866	168	720,373	S-61		
6	2,336	--	---------	--	---------	3	898	9	2,125	17	3,828	19	5,859	21	5,679	148	42,849	L-20		
8	47,432	9	38,167	10	41,235	6	40,144	9	49,046	15	59,412	18	77,557	19	73,545	158	763,222			
--	---------	--	---------	--	---------	--	---------	7	809	10	992	21	1,971	13	1,063	91	10,537	S-3		
11	8,146	6	6,392	6	5,976	11	7,661	12	12,098	15	15,116	16	14,918	16	16,634	139	135,181	S-3		
10	38,351	9	35,028	11	42,864	14	51,991	18	66,922	23	86,917	22	84,404	21	75,999	181	674,140	S-4		
16	78,744	13	64,753	13	61,889	16	74,067	14	69,914	17	84,035	17	74,514	19	79,030	184	858,224	S-83		
11	16,105	14	19,077	11	15,591	12	16,435	13	17,229	14	20,193	11	16,147	14	20,491	137	191,812	S-87		
5	22,242	11	52,451	12	58,836	8	46,043	17	88,668	19	96,562	21	90,874	20	100,903	157	786,132	S-88		
--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	17	10,537	21	14,775	93	149,781	S-89		
15	29,233	17	31,773	17	31,828	23	45,154	22	41,602	26	48,659	20	38,662	23	42,689	239	451,138	S-92		
18	71,642	14	55,641	19	70,016	21	76,856	21	71,804	20	72,543	20	67,779	19	71,440	223	830,045	S-93		
8	15,750	11	21,930	9	17,897	11	21,512	14	27,426	16	34,866	19	39,095	22	47,996	165	348,795	S-94		
16	15,783	15	21,895	17	19,557	19	25,865	19	25,797	20	32,294	19	29,697	21	33,527	204	228,354	S-96		
12	40,417	8	23,893	9	31,810	13	34,799	14	40,229	18	62,527	19	59,356	20	60,126	166	530,578	S-99		
11	32,815	12	36,960	13	38,484	13	43,581	14	45,519	19	60,882	18	56,546	23	66,120	155	440,913	S-100		
--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	--	---------	28	1,332	L-169		
--	---------	--	---------	3	107	19	949	21	2,168	20	2,801	20	2,918	21	2,593	161	18,466	L-175		
--	---------	--	---------	10	2,201	21	3,492	21	4,599	18	4,800	20	5,731	20	6,395	171	41,159	L-190		
15	2,139	12	1,233	10	496	17	2,568	21	3,460	21	3,730	21	5,775	20	5,221	215	37,961	L-195		
10	1,329	15	1,269	22	3,599	24	5,846	23	6,563	22	7,772	21	5,259	21	6,070	222	52,811	L-199		
15	1,746	2	601	2	310	20	1,049	15	1,490	24	4,600	20	5,080	20	3,359	192	33,237	L-200		
6	973	4	726	11	1,614	21	2,776	21	3,618	22	4,753	22	4,581	22	5,559	188	37,655	L-201		
12	367,269	11	367,230	12	397,099	17	452,983	18	517,008	19	627,934	19	596,955	21	642,293	171	5,712,533			
12	2,721,569	12	2,744,987	11	2,474,785	14	3,043,435	16	3,396,713	17	3,774,869	18	4,028,565	20	4,425,067	152	40,017,802			

II PRODUCTION—

BUREAU

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons				
			Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINE						
*S-11	Midland Electric Coal Corp. #1	Atkinson	698,964	597,301	43,627		46,226

CHRISTIAN

Mine index number	Name of operator	Post office address of the mine	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINES						
S-3	Peabody Coal Co. #8	Tovey	777,444	767,140			9,711
S-7	Peabody Coal Co. #17	Pana	1,980,718	1,863,256	41,779		71,184
S-8	Peabody Coal Co. #10	Pawnee	2,645,923	2,471,844	88,026		83,317
	Total—3 mines		5,404,085	5,102,240	129,805		164,212

CLARK

Mine index number	Name of operator	Post office address of the mine	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	LOCAL MINE						
L-1	Rock Hill Coal Co	West Union	3,252				3,252

CLINTON

Mine index number	Name of operator	Post office address of the mine	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINE						
S-3	Breese Coal Co., Inc	Breese	55,857	22,054	1,315		25,463
	LOCAL MINE						
S-2	Citizens Coal Co	Breese	64,403				62,447

DOUGLAS

Mine index number	Name of operator	Post office address of the mine	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINE						
S-1	Bell & Zoller Coal Co	Murdock	250,380	158,083	37		92,260

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* Previously carried in Henry County.

TABLE 10

COUNTY

Disposition of output—tons				Explosives used for blasting coal				Number of—						
Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
4,123	7,687	124	233	--------	--------	--------	--------	----	----	---------	---------	698,964	----	S-11

COUNTY

593	-------	696	68	--------	--------	* 14	--------	10	46	777,444	---------	---------	----	S-3
1,062	3,437	675	192	--------	--------	* 11	--------	7	17	1,980,718	---------	---------	----	S-7
2,736	-------	671	193	--------	--------	* 15	--------	8	----	2,645,923	---------	---------	----	S-8
4,391	3,437	2,042	453	--------	--------	--------	--------	25	63	5,404,085	---------	---------	----	

COUNTY

-------	-------	4	100	--------	--------	--------	--------	----	----	---------	---------	3,252	----	L-1

COUNTY

7,025	-------	81	152	--------	--------	--------	10,350	3	3	55,857	---------	---------	8	S-3
1,956	-------	98	172	--------	--------	**** 1	--------	3	3	64,403	---------	---------	7	S-2

COUNTY

-------	-------	71	210	--------	--------	* 2	--------	2	4	250,380	---------	---------	----	S-1

* Airdox. **** Armstrong Coal Breakers.

FRANKLIN

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons: Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINES						
S-3	Chicago, Wilmington & Franklin Coal Co. #1	Orient	720,283	658,774	41,064	----------	3,946
S-4	Chicago, Wilmington & Franklin Coal Co. #2	West Frankfort	974,758	806,237	49,494	----------	66,563
S-10	Old Ben Coal Corp. #14	Buckner	554,906	450,087	6,871	----------	85,729
S-11	Old Ben Coal Corp. #15	West Frankfort	14,234	13,720	----------	----------	176
S-14	Old Ben Coal Corp. #22	Valier	624,073	528,298	93,855	----------	690
S-20	Old Ben Coal Corp. #9	West Frankfort	1,433,521	1,246,396	67,901	----------	59,804
	Total—6 mines	----------	4,321,775	3,703,512	259,185	----------	216,908

FULTON

Mine index number	Name of operator	Post office address of the mine	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINES						
S-2	Little Sister Coal Corp	St. David	658,702	203,271	8,903	405,203	41,325
S-10	Pschirrer Coal Co. #3	Canton	28,907	12,322	----------	----------	16,235
S-13	Truax-Traer Coal Co., "Red Ember"	Fiatt	1,277,113	564,919	17,379	692,905	1,910
S-14	The United Electric Coal Cos., #9	Cuba	802,501	789,238	10,155	----------	940
S-15	The United Electric Coal Cos., #17	Canton	898,910	894,531	----------	----------	1,597
S-39	Morgan Mines, Inc., "Morgan-Bryant"	Lewistown	164,006	164,006	----------	----------	----------
S-40	Fairview Collieries Corp., "Flamingo"	Fairview	577,996	432,775	142,166	----------	832
S-41	Key Coal Co	Astoria	440,028	111,932	5,243	151,972	170,881
	Total—8 mines	----------	4,848,163	3,172,994	183,846	1,250,080	233,720
	LOCAL MINES						
S-42	Eblen Bros. Coal Co. #1	Canton	30,000	----------	----------	30,000	----------
L-45	Liverpool Coal Co	Lewistown	3,093	----------	----------	----------	3,093
L-108	Bruketta & Sons Coal Co	Farmington	13,679	----------	----------	----------	12,510
L-165	Lump Coal Co	Cuba	17,217	----------	----------	----------	17,212
L-167	Glore & Fritz Coal Co	Ellisville	4,007	----------	----------	----------	3,998
L-192	Putt Creek Coal Co., Inc	Cuba	5,472	----------	----------	----------	3,972
L-196	Day Branch Coal Co	Lewistown	2,384	----------	----------	----------	2,180
L-198	Pine Bluff Coal Co	Lewistown	11,071	----------	----------	----------	10,966
L-211	Lingenfelter Coal Co. #1	Canton	615	----------	----------	----------	615
L-214	Ellisville Mining Co. #1	Ellisville	3,199	----------	----------	----------	2,871
L-217	Malmgren Coal Co. #2	Glasford	1,231	----------	----------	----------	1,231
L-218	Pete Maccanelli Coal Co. #1	Farmington	2,716	----------	----------	----------	2,456
L-221	Becker & Sons Coal Co	Peoria	4,666	----------	----------	----------	4,666
L-224	A. & M. Coal Co	Morton	50	----------	----------	----------	50
L-225	Jones Coal Co. #1	Astoria	250	----------	----------	----------	250
L-227	Lingenfelter Coal Co. #2	Canton	7,800	----------	----------	----------	7,800
L-228	Hopkins Coal Co	Astoria	200	----------	----------	----------	200
L-229	L. & M. Coal Co	Peoria	2,102	----------	----------	----------	2,102
	Total—18 mines	----------	109,752	----------	----------	30,000	76,172

TABLE 10—Continued

COUNTY

Disposition of output—tons		Total employees	Days of active operation	Explosives used for blasting coal				Number of—		Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
Tons consumed at the mine	All coal not sold including waste			Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors					
11,357	5,142	388	200	--------	--------	***	--------	5	17	720,283	--------	--------	----	S-3
5,296	47,168	690	151	--------	--------	* 7	--------	7	31	974,758	--------	--------	----	S-4
1,391	10,828	336	132	--------	--------	* 4	--------	5	33	554,906	--------	--------	----	S-10
338	--------	265	7	--------	--------	* 3 * 5	--------	4	26	14,234	--------	--------	----	S-11
1,230	--------	443	144	--------	--------	*** ** 1	--------	6	36	624,073	--------	--------	----	S-14
3,574	55,846	586	184	--------	--------	* 6 ** 4	--------	11	38	1,433,521	--------	--------	----	S-20
23,186	118,984	2,708	818	--------	--------	--------	--------	38	181	4,321,775	--------	--------	----	

COUNTY

--------	--------	129	168	--------	--------	--------	84,850	----	----	--------	--------	658,702	----	S-2
350	--------	41	107	--------	--------	* 1	--------	6	3	28,907	--------	--------	----	S-10
--------	--------	220	196	--------	--------	--------	88,200	----	----	--------	--------	1,277,113	----	S-13
1,628	540	109	193	--------	--------	666,060	--------	----	----	--------	--------	802,501	----	S-14
965	1,817	167	209	--------	--------	637,300	--------	----	----	--------	--------	898,910	----	S-15
--------	--------	36	107	--------	--------	24,000	--------	----	----	--------	--------	164,006	----	S-39
2,223	--------	97	156	--------	4,250	--------	53,300	----	----	--------	--------	577,996	----	S-40
--------	--------	58	163	--------	--------	47,850	--------	----	----	--------	--------	440,028	----	S-41
5,166	2,357	857	1,299	--------	4,250	1,375,210	226,350	6	3	28,907	--------	4,819,256	----	

--------	--------	5	188	--------	--------	6,000	--------	----	----	--------	--------	30,000	----	S-42
--------	--------	11	67	--------	2,200	--------	--------	2	1	3,093	--------	--------	2	L-45
10	1,159	14	191	--------	--------	* 1	--------	1	2	13,679	--------	--------	----	L-108
5	--------	3	240	--------	--------	3,640	--------	----	----	--------	--------	17,217	----	L-165
9	--------	7	145	--------	1,300	--------	--------	1	----	4,007	--------	--------	2	L-167
--------	1,500	9	136	--------	--------	--------	3,500	1	1	5,472	--------	--------	2	L-192
4	200	9	80	--------	750	--------	--------	1	1	2,384	--------	--------	1	L-196
5	100	9	185	--------	--------	* 1	--------	2	1	11,071	--------	--------	----	L-198
--------	--------	4	10	--------	200	--------	--------	----	----	--------	--------	615	----	L-211
--------	328	3	136	--------	--------	1,500	--------	----	----	--------	--------	3,199	----	L-214
--------	--------	2	139	--------	--------	--------	450	----	----	--------	--------	1,231	----	L-217
--------	260	8	103	--------	950	--------	--------	1	----	2,716	--------	--------	1	L-218
--------	--------	4	140	--------	575	--------	250	1	----	4,666	--------	--------	----	L-221
--------	--------	2	14	--------	--------	--------	20	----	----	--------	--------	50	----	L-224
--------	--------	2	25	--------	--------	--------	50	----	----	--------	--------	250	----	L-225
--------	--------	4	100	--------	2,600	--------	--------	----	----	--------	--------	7,800	----	L-227
--------	--------	1	90	--------	--------	25	--------	----	----	--------	--------	200	----	L-228
--------	--------	3	45	--------	--------	1,000	--------	----	----	--------	--------	2,102	----	L-229
33	3,547	100	2,034	--------	8,575	12,165	4,270	10	6	47,088	--------	62,664	8	

* Airdox. *** Chemechol. ** Continuous Miners.

GALLATIN

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons				
			Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	LOCAL MINES						
L-2	B-W Coal Co.	Junction	45,675	---	---	33,731	11,092
L-4	Pekin Coal Co. #1	Equality	33,689	---	---	31,475	2,214
L-9	Sun Valley Coal Co. #1	Eldorado	8,020	---	---	6,000	740
L-17	Blu-Blaz-Bloc Coal Co., Inc.	Sparks Hill	550	---	---	---	500
L-26	Dillard Coal Co. #2	Logan	300	---	---	300	---
L-86	Oak Hill Coal Co. #1	Junction	2,000	---	---	2,000	---
L-93	Shawnee Coal Co.	Harrisburg	5,737	---	---	5,737	---
	Total—7 mines	---	95,971	---	---	79,243	14,546

GREENE

	LOCAL MINE						
L-112	Birch Creek Coal Co.	Roodhouse	3,000	---	---	---	2,711

GRUNDY

	LOCAL MINES						
L-1	Morris Coal & Mining Co.	Morris	6,855	---	---	---	6,855
L-3	No. 3 Coal Corp.	South Wilmington	7,106	---	---	---	6,848
	Total—2 mines	---	13,961	---	---	---	13,703

HANCOCK

	LOCAL MINE						
L-18	Triple S Mines #2	Augusta	23,520	---	---	---	23,520

HENRY

	SHIPPING MINE						
L-198	Alpha Coal Co.	Alpha	23,821	8,656	---	---	14,572
	LOCAL MINE						
L-34	Jim Mines, Inc.	Coal Valley	5,392	---	---	---	5,292

TABLE 10—Continued

COUNTY

Disposition of output—tons		Total employees	Days of active operation	Explosives used for blasting coal				Number of—		Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
Tons consumed at the mine	All coal not sold including waste			Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors					
852	-------	39	171	--------	--------	--------	13,350	2	4	34,190	11,485	---------	----	L-2
-------	-------	24	170	--------	--------	--------	13,000	1	1	33,689	---------	---------	----	L-4
8	1,272	13	91	--------	3,300	--------	--------	1	----	8,020	---------	---------	2	L-9
5	45	4	60	--------	--------	--------	200	1	1	550	---------	---------	----	L-17
-------	-------	4	20	--------	400	--------	--------	----	----	---------	300	---------	1	L-26
-------	-------	12	20	--------	--------	--------	20	1	----	2,000	---------	---------	----	L-86
-------	-------	12	56	--------	2,000	--------	--------	1	1	5,737	---------	---------	2	L-93
865	1,317	108	588	--------	5,700	--------	26,570	7	7	84,186	11,785	---------	5	

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
-------	289	3	250	--------	--------	--------	2,200	----	----	---------	---------	3,000	----	L-112

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
-------	-------	10	58	--------	--------	--------	--------	----	----	---------	---------	6,855	----	L-1
8	250	19	105	--------	--------	--------	950	2	----	7,106	---------	---------	5	L-3
8	250	29	163	--------	--------	--------	950	2	----	7,106	---------	6,855	5	

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
-------	-------	14	177	--------	--------	--------	--------	----	----	---------	---------	23,520	----	L-18

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
120	473	18	244	--------	3,900	--------	5,550	1	1	23,821	---------	---------	----	L-198
100	-------	15	107	--------	--------	--------	1,400	1	----	5,392	---------	---------	3	L-34

JACKSON

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons				
			Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINES						
S-1	Truax-Traer Coal Co. #1 "Drift"	Elkville	413,363	301,020	86,725	----------	24,658
S-1	Truax-Traer Coal Co. #1 "Strip"	Elkville	604,927	440,495	126,935	----------	36,092
†L-28	Joliana Coal Mining Co	Elkville	38,333	24,507	10,178	----------	3,648
†L-28	Elk Coal Co	Elkville	32,804	13,492	10,400	----------	8,912
L-54	Co-op Coal Co. #1	Carbondale	1,331	459	----------	----------	857
	Total—4 mines	----------	1,090,758	779,973	234,238	----------	74,167
	LOCAL MINES						
S-7	Joe P. Cooksey Coal Co	Marion	6,000	----------	----------	----------	6,000
L-6	Phillips Coal Co	Carbondale	1,212	----------	----------	----------	1,212
L-57	Jess R. Morgan Coal Co	Ava	1,101	----------	----------	----------	971
	Total—3 mines	----------	8,313	----------	----------	----------	8,183

JEFFERSON

	SHIPPING MINE						
S-3	Chicago, Wilmington & Franklin Coal Co. #3	Waltonville	1,579,296	1,442,985	102,844	----------	27,320

KANKAKEE

	SHIPPING MINE						
S-1	Northern Illinois Coal Corp. #14E	Wilmington	834,905	675,185	21,947	----------	137,773

KNOX

	SHIPPING MINES						
S-2	Stonefort Coal Corp. "Little John"	Victoria	363,982	358,385	5,597	----------	----------
S-3	Midland Electric Coal Corp. "Rapatee Strip #1"	Farmington	762,405	454,890	297,342	----------	95
*S-3	Midland Electric Coal Corp. "Middlegrove Strip #2"	Farmington	652,441	628,567	6,319	----------	2,331
L-4	Little Coal Co	Farmington	3,304	792	----------	----------	2,366
	Total—4 mines	----------	1,782,132	1,442,634	309,258	----------	4,792
	LOCAL MINE						
L-20	Knoxville Mining Co. #2	Galesburg	28,832	----------	----------	----------	24,824

---

† Number of employes, mining machines, motors and animals averaged account different management same mine.

* Previously carried in Fulton County.

TABLE 10—Continued

COUNTY

Disposition of output—tons		Total employees	Days of active operation	Explosives used for blasting coal				Number of—		Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
Tons consumed at the mine	All coal not sold including waste			Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors					
-------	960	151	191	--------	--------	* 4	--------	4	8	413,363	---------	---------	----	S-1
-------	1,405	118	187	--------	8,100	--------	20,550	----	----	---------	---------	604,927	----	S-1
-------	-------	84	50	--------	--------	* 1	--------	4	7	38,333	---------	---------	----	L-28
-------	-------	37	106	--------	--------	* 1	--------	2	7	32,804	---------	---------	----	L-28
15	-------	8	43	--------	500	--------	250	1	----	1,331	---------	---------	1	L-54
15	2,365	337	577	--------	8,600	--------	20,800	9	15	485,831	---------	604,927	1	
-------	-------	3	150	--------	1,000	--------	--------	----	----	---------	---------	6,000	----	S-7
-------	-------	7	75	106	700	--------	--------	----	----	---------	1,212	---------	1	L-6
130	-------	2	116	--------	--------	200	100	----	----	---------	---------	1,101	----	L-57
130	-------	12	341	106	1,700	200	100	----	----	---------	1,212	7,101	1	

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
1,986	4,161	420	226	--------	--------	** 14	--------	----	3	1,579,296	---------	---------	----	S-3

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
-------	-------	196	235	--------	--------	706,450	--------	----	----	---------	---------	834,905	----	S-1

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
-------	-------	116	139	--------	--------	--------	--------	----	----	---------	---------	363,982	----	S-2
2,477	7,601	119	246	--------	--------	127,450	--------	----	----	---------	---------	762,405	----	S-3
8,676	6,548	133	252	--------	--------	130,450	--------	----	----	---------	---------	652,441	----	S-3
20	126	14	64	--------	--------	--------	600	2	1	3,304	---------	---------	4	L-4
11,173	14,275	382	701	--------	--------	257,900	600	2	1	3,304	---------	1,778,828	4	
1,200	2,808	39	149	--------	--------	--------	--------	2	4	28,832	---------	---------	8	L-20

* Airdox Machines. ** Continuous Miners.

LA SALLE

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	LOCAL MINES						
L-3	French Coal Co. #2	Streator	10,178				10,005
L-7	Chicago Retort & Fire Brick Co.	Ottawa	2,186				
L-20	Andrew Kollar Coal Co	Streator	523				523
L-106	Arthur Mart Coal Co	Streator	756				631
L-113	E. Roy Meyers Coal Co	Ottawa	105				80
L-116	Monmouth Stone Co	LaSalle	54				54
L-117	Lawrence Donovan Coal Co	Utica	321				321
	Total—7 mines		14,123				11,614

LIVINGSTON

	LOCAL MINES						
L-55	Streator Drain Tile Co	Streator	1,144				176
L-57	Baiett & Talbot Coal Co	Streator	3,020				3,020
	Total—2 mines		4,164				3,196

LOGAN

	LOCAL MINE						
L-1	Deer Creek Coal Co	Lincoln	32,597				32,592

MACOUPIN

	SHIPPING MINES						
S-3	Little Dog Coal Co	Gillespie	246,976	194,418	975		50,611
S-9	Superior Coal Co. #4	Gillespie	178,906		167,049		3,047
S-10	Virden Mining Corp	Virden	77,260	55,753	6,644		11,225
	Total—3 mines		503,142	250,171	174,668		64,883

TABLE 10—Continued

COUNTY

Disposition of output—tons				Explosives used for blasting coal				Number of—						
Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
5	168	15	150	-------	2,000	-------	1,500	1	1	6,878	3,300	-------	3	L-3
2,186	-------	10	242	-------	-------	1,475	-------	----	----	-------	-------	2,186	----	L-7
-------	-------	5	124	-------	200	-------	-------	----	----	-------	-------	523	----	L-20
25	100	2	69	-------	150	-------	-------	----	----	-------	-------	756	----	L-106
15	10	1	50	-------	425	-------	-------	----	----	-------	-------	105	----	L-113
-------	-------	1	7	-------	-------	-------	-------	----	----	-------	-------	54	----	L-116
-------	-------	2	40	-------	-------	-------	-------	----	----	-------	-------	321	----	L-117
2,231	278	36	682	-------	2,775	1,475	1,500	1	1	6,878	3,300	3,945	3	

COUNTY

-------	968	2	112	-------	-------	-------	-------	----	----	-------	-------	1,144	----	L-55
-------	-------	5	162	-------	-------	100	-------	----	----	-------	-------	3,020	----	L-57
-------	968	7	274	-------	-------	100	-------	----	----	-------	-------	4,164	----	

COUNTY

5	-------	26	144	-------	-------	* 1	-------	16	5	32,597	-------	-------	----	L-1

COUNTY

972	-------	142	163	-------	-------	**** 2	-------	3	8	246,976	-------	-------	----	S-3
8,810	-------	329	53	-------	-------	-------	41,400	5	27	178,906	-------	-------	----	S-9
3,638	-------	120	119	-------	-------	-------	9,400	3	2	77,260	-------	-------	10	S-10
13,420	-------	591	335	-------	-------	-------	50,800	11	37	503,142	-------	-------	10	

* Airdox Machine. **** Armstrong Coal Breakers.

MADISON

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons				
			Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINES						
S-3	The Livingston-Mt. Olive Coal Co. #1	Livingston	94,976	46,142	28,025	----------	17,414
S-6	Mt. Olive & Staunton Coal Co. #2	Staunton	403,850	171,740	134,631	----------	87,161
S-7	Lumaghi Coal Co. #4	Collinsville	490,299	7,505	----------	----------	475,970
	Total—3 mines	----------	989,125	225,387	162,656	----------	580,545
	LOCAL MINE						
L-3	Bluff Coal Co. #1	Collinsville	6,037	----------	----------	----------	5,037

MARION

	SHIPPING MINE						
S-1	Marion County Coal Mining Corp. "Glenridge"	Centralia	69,382	34,102	2,134	----------	20,927

MENARD

	LOCAL MINES						
L-1	Greenview Fuel Co	Greenview	262	----------	----------	----------	257
L-3	Lloyd Coal Mine	Tallula	2,063	----------	----------	----------	1,976
L-5	Indian Creek Coal Co	Petersburg	2,420	----------	----------	----------	2,070
L-11	Wilcox-Verna Coal Co	Petersburg	8,412	----------	----------	----------	8,412
L-12	Forden Coal Co	Petersburg	580	----------	----------	----------	580
	Total—5 mines	----------	13,737	----------	----------	----------	13,295

MONTGOMERY

	SHIPPING MINE						
S-4	Freeman Coal Mining Corp. "Crown"	Farmersville	1,600,716	1,358,307	----------	----------	242,409

TABLE 10—Continued

COUNTY

Disposition of output—tons				Explosives used for blasting coal				Number of—						
Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
2,626	769	140	118	--------	--------	200	18,420	5	12	94,976	---------	---------	----	S-3
8,700	1,618	296	157	--------	--------	600	153,150	5	36	403,850	---------	---------	----	S-6
2,296	4,528	230	147	--------	--------	**** 4	--------	4	12	490,299	---------	---------	----	S-7
13,622	6,915	666	422	--------	--------	800	171,570	14	60	989,125	---------	---------	----	
-------	1,000	19	81	--------	1,350	--------	700	1	3	6,037	---------	---------	3	L-3

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
2,625	9,594	82	105	--------	--------	**** 1	10,900	4	8	69,382	---------	---------	----	S-1

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
5	-------	13	8	--------	--------	--------	300	2	1	262	---------	---------	2	L-1
12	75	8	137	114	--------	--------	--------	----	----	---------	2,063	---------	1	L-3
150	200	8	116	160	--------	--------	--------	1	----	2,420	---------	---------	2	L-5
-------	-------	15	154	--------	--------	--------	10,000	1	1	8,412	---------	---------	2	L-11
-------	-------	4	120	--------	--------	--------	400	----	----	---------	580	---------	----	L-12
167	275	48	535	274	--------	--------	10,700	4	2	11,094	2,643	---------	7	

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
-------	-------	552	178	--------	--------	* 8	--------	8	4	1,600,716	---------	---------	----	S-4

* Airdox Machines. **** Armstrong Coal Breakers.

PEORIA

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons				
			Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	LOCAL MINES						
L-5	Treasure Coal Co.	Bartonville	4,014				3,609
L-6	O. W. Lightbody Coal Co.	Glasford	6,594				6,594
L-14	Charter Oak Coal Co.	Peoria	3,018				2,918
L-32	Big Bear Coal Co.	Peoria	6,706				6,356
L-33	Superior Mining Co.	Pottstown	6,616				6,561
L-84	Lee Coal Mining Co.	Peoria	7,537				7,527
L-115	†Rock & Stevenson Coal Co.	Peoria	1,850				1,699
L-115	†Pleasant Hill Coal Co.	Peoria	1,134				1,131
L-125	Collins Bros. Coal Co.	Pottstown	2,484				2,084
L-126	Zaborac Coal Co.	Peoria	12,683				12,633
L-129	Beecham Bros. Coal Co.	Glasford	631				621
L-130	Howard Scott Coal Co.	Glasford	650				650
L-137	J. & J. Coal Co. #1	Canton	25,902			25,902	
L-146	Pioneer Collieries Co.	Laura	77,331				77,331
L-150	Morgan Coal Co.	Edwards	176,167				172,117
L-156	J. & J. Coal Co. #2	Canton	88,277			88,277	
L-157	Howard Albrecht Coal Co. #2	Morton	3,414				3,414
	Total—16 mines		425,008			114,179	305,245

PERRY

Mine index number	Name of operator	Post office address of the mine	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINES						
S-2	Service Coal Co. #6	Pinckneyville	3,122	2,464			513
S-5	Big Five Coal Co.	Conant	8,616		6,895		1,409
S-6	Peabody Coal Co. #14	DuQuoin	67,850	47,857	14,710	‡885	2,163
S-8	Cutler Coal Co., Inc.	Cutler	37,320	8,258	27,645		627
S-13	Truax-Traer Coal Co. "Pyramid"	Pinckneyville	416,179	399,463	15,859		791
S-14	The United Electric Coal Cos., #11	DuQuoin	919,357	746,120	48,388		122,812
S-32	Union Colliery Co. "New Kathleen"	DuQuoin	1,299,103	1,280,931	12,555		5,089
S-33	Truax-Traer Coal Co. #2	Pinckneyville	534,438	512,973	20,365		1,015
	Total—8 mines		3,285,985	2,998,066	146,417	885	134,419
	LOCAL MINES						
L-2	Elm Grove Coal Co.	Cutler	900				792
L-3	Gem Coal Co.	Pinckneyville	2,000				1,800
L-31	DuQuoin Coal Co.	DuQuoin	410				410
	Total—3 mines		3,310				3,002

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† Number of employes, mining machines, motors and animals averaged account different management same mine.

‡ Supplied to locomotives at mine chutes.

TABLE 10—Continued

COUNTY

Disposition of output—tons		Total employees	Days of active operation	Explosives used for blasting coal				Number of—		Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
Tons consumed at the mine	All coal not sold including waste			Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors					
405	-------	19	58	--------	--------	--------	1,150	2	1	4,014	---------	---------	2	L-5
-------	-------	8	116	--------	1,000	--------	--------	1	1	6,594	---------	---------	3	L-6
75	25	11	111	--------	700	--------	--------	1	----	3,018	---------	---------	2	L-14
-------	350	6	210	--------	--------	--------	2,400	2	1	6,546	160	---------	----	L-32
25	30	13	146	--------	2,000	--------	--------	1	1	6,616	---------	---------	1	L-33
10	-------	15	129	--------	500	--------	1,000	2	2	7,537	---------	---------	----	L-84
15	136	5	112	--------	350	--------	--------	1	----	1,850	---------	---------	1	L-115
3	-------	5	67	--------	300	--------	--------	1	----	1,134	---------	---------	1	L-115
-------	400	4	192	--------	600	--------	--------	2	----	2,484	---------	---------	1	L-125
50	-------	10	231	--------	--------	--------	2,050	2	1	12,683	---------	---------	----	L-126
10	-------	3	210	--------	1,100	--------	--------	----	----	---------	631	---------	1	L-129
-------	-------	1	115	--------	250	--------	--------	----	----	---------	---------	650	----	L-130
-------	-------	16	172	--------	--------	5,000	--------	----	----	---------	---------	25,902	----	L-137
-------	-------	22	153	--------	9,225	21,950	--------	----	----	---------	---------	77,331	----	L-146
50	4,000	25	209	--------	--------	--------	--------	----	----	---------	---------	176,167	----	L-150
-------	-------	16	172	--------	--------	1,450	--------	----	----	---------	---------	88,277	----	L-156
-------	-------	2	90	--------	--------	300	--------	----	----	---------	---------	3,414	----	L-157
643	4,941	176	2,493	--------	16,025	28,700	6,600	14	7	52,476	791	371,741	11	

COUNTY

145	-------	13	58	--------	5,850	--------	--------	----	----	---------	3,122	---------	2	S-2
312	-------	14	104	--------	1,000	--------	--------	----	1	---------	8,616	---------	2	S-5
2,235	-------	418	19	--------	--------	* 6	--------	5	23	67,850	---------	---------	----	S-6
790	-------	78	103	--------	--------	--------	10,000	3	1	37,320	---------	---------	5	S-8
-------	66	128	144	--------	34,700	--------	2,300	----	----	---------	---------	416,179	----	S-13
1,070	967	151	184	--------	--------	†426,164 64,120	--------	----	----	---------	---------	919,357	----	S-14
421	107	344	240	--------	--------	* 10	--------	6	9	1,299,103	---------	---------	----	S-32
-------	85	82	128	--------	--------	--------	17,250	----	----	---------	---------	534,438	----	S-33
4,973	1,225	1,228	980	--------	41,550	64,120	29,550	14	34	1,404,273	11,738	1,869,974	9	
108	-------	5	108	--------	--------	--------	1,800	----	----	---------	900	---------	1	L-2
-------	200	6	50	--------	2,000	--------	--------	----	----	---------	2,000	---------	2	L-3
-------	-------	4	50	--------	200	--------	50	1	----	410	---------	---------	1	L-31
108	200	15	208	--------	2,200	--------	1,850	1	----	410	2,900	---------	4	

* Airdox Machines. † L.O.X.

RANDOLPH

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons				
			Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINES						
S-7	Southwestern Illinois Coal Corp.	Percy	759,982	726,168	24,450		9,313
S-15	Moffat Coal Co.	Sparta	295,412	215,976	13,252		65,784
S-17	Midwest Utilities Coal Corp.	Sparta	542,299	513,706	15,874		5,515
S-18	Ritter Coal Co. #3	Sparta	33,147	31,017			2,130
	Total—4 mines		1,630,840	1,486,867	53,576		82,742
	LOCAL MINES						
S-2	Crain Coal Co., Inc.	Percy	3,368				2,253
L-7	West Side Coal Co. #1	Sparta	2,622				2,622
	Total—2 mines		5,990				4,875

ST. CLAIR

Mine index number	Name of operator	Post office address of the mine	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINES						
S-3	Golden Rule Coal Co.	Lenzburg	1,005	680			289
S-10	Perry Coal Co. "St. Ellen"	O'Fallon	791,529	383,387	272		397,493
S-13	St. Louis & O'Fallon Coal Co. "Black Eagle #2"	Belleville	143,617	3,718	6,425		123,824
S-93	Seminole Coal Corp. #17	Lenzburg	665,693	290,011	13,537		362,145
L-15	New West Side Coal Co., Inc.	Marissa	11,572		9,693		1,879
L-87	Mid-Continent Coal Corp. "Green Diamond"	Marissa	541,040	368,679	128,299		44,062
L-92	Morgan Mines, Inc. "Wolz-Baltz Pits"	Millstadt	132,233	6,020			126,213
	Total—7 mines		2,286,689	1,052,495	158,226		1,055,905
	LOCAL MINES						
L-7	Schubert Coal Co. #1	Mascoutah	8,811				8,220
L-11	Wildwood Coal Co.	Freeburg	107				107
L-23	East Side Coal Co.	Freeburg	3,516				3,516
L-29	Zink Coal Co.	Freeburg	416				342
L-43	E. Sporleder Coal Service	Belleville	1,651				1,498
L-68	Purity Coal Co.	Belleville	7,438				6,738
L-70	Belle Valley Coal Co.	Belleville	33,540				33,540
L-73	Shiloh Valley Coal Co.	Belleville	8,015				7,670
L-90	Midwest-Radiant Corp. #1	Millstadt	493,881				493,881
	Total—9 mines		557,375				555,512

TABLE 10—Continued

COUNTY

Disposition of output—tons		Total employees	Days of active operation	Explosives used for blasting coal				Number of—		Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
Tons consumed at the mine	All coal not sold including waste			Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors					
51	-------	113	175	--------	32,100	500	--------	----	----	---------	---------	759,982	----	S-7
400	-------	191	148	--------	--------	* 5	--------	5	8	295,412	---------	---------	----	S-15
-------	7,204	130	193	--------	--------	**** 4	--------	3	----	542,299	---------	---------	----	S-17
-------	-------	10	82	--------	4,500	--------	--------	----	----	---------	---------	33,147	----	S-18
451	7,204	444	598	--------	36,600	500	--------	8	8	837,711	---------	793,129	----	
315	800	8	104	--------	--------	--------	750	----	----	---------	3,368	---------	1	S-2
-------	-------	13	86	--------	--------	--------	800	1	1	2,622	---------	---------	1	L-7
315	800	21	190	--------	--------	--------	1,550	1	1	2,622	3,368	---------	2	

COUNTY

Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
36	-------	26	9	--------	--------	--------	1,000	----	2	---------	1,005	---------	3	S-3
423	9,954	336	211	--------	--------	--------	500,000	4	25	791,529	---------	---------	----	S-10
8,075	1,575	189	92	--------	--------	--------	47,225	4	14	143,617	---------	---------	----	S-13
-------	-------	91	188	--------	--------	--------	30,350	----	----	---------	---------	665,693	----	S-93
-------	-------	24	82	--------	28,950	--------	--------	1	1	11,572	---------	---------	2	L-15
-------	-------	127	188	--------	--------	* 3	--------	2	----	541,040	---------	---------	----	L-87
-------	-------	41	170	--------	--------	13,850	--------	----	----	---------	---------	132,233	----	L-92
8,534	11,529	834	940	--------	28,950	13,850	578,575	11	42	1,487,758	1,005	797,926	5	
91	500	20	102	--------	--------	--------	9,000	----	1	---------	8,811	---------	3	L-7
-------	-------	3	5	--------	200	--------	--------	----	----	---------	107	---------	1	L-11
-------	-------	12	72	--------	--------	--------	2,000	----	----	---------	3,516	---------	3	L-23
7	67	4	75	32	--------	--------	--------	----	----	---------	416	---------	1	L-29
35	118	3	113	--------	1,600	--------	--------	----	----	---------	1,651	---------	1	L-43
500	200	16	135	--------	--------	--------	6,000	----	----	---------	7,438	---------	2	L-68
-------	-------	40	112	--------	--------	* 1	--------	1	2	---------	33,540	---------	----	L-70
145	200	16	108	--------	2,040	--------	--------	1	1	8,015	---------	---------	3	L-73
-------	-------	87	178	--------	--------	668,050	--------	----	----	---------	---------	493,881	----	L-90
778	1,085	201	900	32	3,840	668,050	17,000	2	4	8,015	55,479	493,881	14	

* Airdox Machines. **** Armstrong Coal Breakers.

SALINE

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons				
			Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINES						
S-1	Sahara Coal Co., Inc. #6	Harrisburg	454,051	404,011	46,447	----------	761
S-16	Sahara Coal Co., Inc. #5	Harrisburg	340,989	329,495	8,147	----------	3,347
S-39	Sahara Coal Co., Inc. #16	Harrisburg	443,388	428,020	10,677	----------	4,691
S-40	Sahara Coal Co., Inc. #7	Harrisburg	49,279	47,338	1,276	----------	665
S-43	Peabody Coal Co. #43	Harrisburg	614,392	613,897	----------	----------	----------
S-46	Peabody Coal Co. #40	Galatia	115,654	115,654	----------	----------	----------
S-50	Saxton Coal Corp. "Newcastle #2"	Carrier Mills	122,561	122,561	----------	----------	----------
	Total—7 mines	----------	2,140,314	2,060,976	66,547	----------	9,464
	LOCAL MINES						
L-26	Pioneer Mining Co.	Equality	7,010	----------	----------	6,705	305
L-35	Eagle Creek Coal Co. #1	Broughton	234	----------	----------	----------	234
L-92	Williams Coal Co.	Harrisburg	19,964	----------	----------	18,644	1,320
L-93	Herkle & McDonald Coal Co. #1	Carrier Mills	2,979	----------	----------	2,979	----------
L-94	Millspaugh & Henshaw Coal Co. #1	Equality	116	----------	----------	----------	89
	Total—5 mines	----------	30,303	----------	----------	28,328	1,948

SANGAMON

Mine index number	Name of operator	Post office address of the mine	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	LOCAL MINES						
L-3	Wenneborg Coal Co. #2	Sherman	5,170	----------	----------	----------	5,170
L-7	Eddy Coal Co.	Cantrall	55,080	----------	----------	----------	55,080
L-10	Cantrall Coal Co.	Springfield	15,943	----------	----------	----------	15,793
L-15	Farrand Coal Co.	Riverton	30,064	----------	----------	----------	30,047
	Total—4 mines	----------	106,257	----------	----------	----------	106,090

SCHUYLER

Mine index number	Name of operator	Post office address of the mine	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	LOCAL MINES						
L-2	Wheelhouse Coal Co.	Rushville	3,875	----------	----------	----------	3,375
L-3	A. H. McCormick & Sons	Rushville	3,800	----------	----------	----------	3,800
L-6	D. & D. Coal Co. #4	Rushville	8,201	----------	----------	----------	8,201
L-190	Green Coal Co.	Camden	6,754	----------	----------	----------	6,554
	Total—4 mines	----------	22,630	----------	----------	----------	21,930

TABLE 10—Continued

COUNTY

Disposition of output—tons				Explosives used for blasting coal				Number of—						
Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
-------	2,832	169	131	-------	-------	†554,162	-------	----	----	-------	-------	454,051	----	S-1
-------	-------	295	193	-------	-------	* 3	-------	4	7	340,989	-------	-------	4	S-16
-------	-------	161	194	-------	-------	* 3	-------	10	6	443,388	-------	-------	4	S-39
-------	-------	200	34	-------	-------	* 3	-------	12	5	49,279	-------	-------	4	S-40
495	-------	200	171	-------	-------	* 4	-------	9	3	614,392	-------	-------	----	S-43
-------	-------	273	37	-------	-------	* 6	-------	4	----	115,654	-------	-------	----	S-46
-------	-------	44	277	-------	-------	-------	-------	----	----	-------	-------	122,561	----	S-50
495	2,832	1,342	1,037	-------	-------	-------	-------	39	21	1,563,702	-------	576,612	12	
-------	-------	14	92	-------	1,400	-------	500	1	2	5,510	1,500	-------	----	L-26
-------	-------	4	46	-------	400	-------	-------	----	----	-------	234	-------	1	L-35
-------	-------	4	200	-------	-------	-------	-------	----	----	-------	-------	19,964	----	L-92
-------	-------	3	20	-------	-------	-------	-------	----	----	-------	-------	2,979	----	L-93
-------	27	2	75	-------	400	-------	-------	----	----	-------	116	-------	----	L-94
-------	27	27	453	-------	2,200	-------	500	1	2	5,510	1,850	22,943	1	

COUNTY

-------	-------	23	61	-------	-------	* 1	-------	2	2	5,170	-------	-------	2	L-3
-------	-------	58	145	-------	-------	* 1	-------	2	3	55,080	-------	-------	2	L-7
150	-------	31	48	-------	-------	-------	8,650	----	----	-------	15,943	-------	4	L-10
17	-------	29	111	-------	-------	**** 1	-------	2	2	30,064	-------	-------	----	L-15
167	-------	141	365	-------	-------	-------	8,650	6	7	90,314	15,943	-------	8	

COUNTY

15	485	8	178	200	-------	-------	-------	----	----	-------	3,875	-------	1	L-2
-------	-------	8	200	260	-------	-------	-------	----	----	-------	3,800	-------	1	L-3
-------	-------	18	137	-------	-------	-------	3,000	2	1	8,201	-------	-------	2	L-6
100	100	4	268	-------	-------	-------	-------	----	----	-------	-------	6,754	----	L-190
115	585	38	783	460	-------	-------	3,000	2	1	8,201	7,675	6,754	4	

† L.O.X. * Airdox Machines. **** Armstrong Coal Breakers.

TAZEWELL

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons				
			Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	LOCAL MINE						
L-2	Lakeside Coal Co.	Pekin	9,330				9,330

VERMILION

	SHIPPING MINES						
S-61	Fairview Collieries Corp. "Harmattan"	Danville	720,373	616,175	4,510		97,324
L-220	V-Day Coal Co.	Danville	42,849	18,596			24,253
	Total—2 mines		763,222	634,771	4,510		121,577
	LOCAL MINES						
S-62	Two Rivers Coal Co.	Danville	19,780				19,280
L-16	B-10 Coal Co.	Catlin	6,842				6,742
L-209	Green Top Coal Co.	Catlin	3,625				3,625
L-215	Deep Valley Coal Co.	Danville	2,754				2,754
L-217	Blue Lake Coal Co.	Catlin	8,948				7,563
L-219	Kedas Coal Co.	Westville	305				305
L-233	Fredrickson Coal Co.	Danville	910				910
L-234	Georgetown Coal Co.	Westville	2,359				2,359
L-235	Salt Fork Coal Corp. #1	Oakwood	4,540				4,340
	Total—9 mines		50,063				47,878

WARREN

	LOCAL MINE						
L-40	Miller Bros. Coal Co.	Mathersville	877				872

WASHINGTON

	SHIPPING MINE						
S-3	Bois Coal Co.	DuBois	10,537	5,728			4,509
	LOCAL MINE						
L-2	Venedy Coal Co., Inc.	Venedy	8,419				8,119

TABLE 10—Continued

COUNTY

Disposition of output—tons		Total employees	Days of active operation	Explosives used for blasting coal				Number of—		Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
Tons consumed at the mine	All coal not sold including waste			Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors					
-------	-------	16	133	--------	3,000	--------	--------	2	----	9,330	---------	---------	5	L-2

COUNTY

2,364	-------	115	168	--------	52,600	--------	36,850	----	----	---------	---------	720,373	----	S-61
-------	-------	28	148	--------	--------	* 1	--------	1	3	42,849	---------	---------	----	L-220
2,364	-------	143	316	--------	52,600	--------	36,850	1	3	42,849	---------	720,373	----	
-------	500	7	190	--------	9,000	--------	--------	----	----	---------	---------	19,780	----	S-62
50	50	14	180	--------	2,000	--------	--------	2	----	6,842	---------	---------	2	L-16
-------	-------	12	70	--------	--------	--------	1,000	1	----	3,625	---------	---------	2	L-209
-------	-------	8	146	--------	--------	--------	750	2	----	2,754	---------	---------	1	L-215
25	1,360	14	136	--------	2,950	--------	--------	3	3	8,948	---------	---------	----	L-217
-------	-------	3	30	--------	25	--------	--------	----	----	---------	---------	305	----	L-219
-------	-------	2	155	--------	900	--------	--------	----	----	---------	910	---------	----	L-233
-------	-------	2	102	--------	--------	--------	--------	----	----	---------	---------	2,359	----	L-234
-------	200	4	180	--------	200	--------	--------	----	----	---------	---------	4,540	----	L-235
75	2,110	66	1,189	--------	15,075	--------	1,750	8	3	22,169	910	26,984	5	

COUNTY

5	-------	6	45	--------	--------	--------	500	1	----	877	---------	---------	1	L-40

COUNTY

300	-------	38	91	--------	--------	--------	11,050	----	----	---------	10,537	---------	5	S-3
300	-------	16	119	--------	--------	--------	1,800	1	----	8,419	---------	---------	3	L-2

* Airdox Machine.

WILL

Mine index number	Name of operator	Post office address of the mine	Disposition of output—tons				
			Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINE						
S-3	Wilmington Coal Mining Corp	Braidwood	135,181	74,441	----------	----------	60,740

WILLIAMSON

Mine index number	Name of operator	Post office address of the mine	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
	SHIPPING MINES						
S-4	Delta Collieries Corp	Marion	674,140	511,704	160,156	----------	382
S-83	Bell & Zoller Coal Co. #2	Johnston City	858,224	788,580	57,572	----------	10,767
S-87	Forsyth-Carterville Coal Co	Carterville	191,812	170,283	20,477	----------	1,052
S-88	Bell & Zoller Coal Co. #3	Zeigler	786,132	696,235	35,116	----------	14,941
S-89	Blue Bird Coal Co. #7	Harrisburg	149,781	125,181	22,484	----------	2,116
S-92	Morgan Mines, Inc	Herrin	451,138	385,895	46,985	----------	18,258
S-93	Freeburn Mining Co. #3	Marion	830,045	805,263	20,394	----------	4,388
S-94	Carmac Coal Co	Marion	348,795	314,381	31,576	----------	2,525
S-96	Blue Bird Coal Co. #8	Harrisburg	228,354	218,904	3,799	----------	5,651
S-99	Freeman Coal Mining Corp. #4	Marion	530,578	529,206	1,060	----------	312
S-100	Stonefort Corp. "Will Scarlet"	Stonefort	440,913	431,008	9,795	----------	----------
L-169	Strobel Coal Co	Marion	1,332	----------	781	----------	551
L-175	C. & C. Coal Co	Marion	18,466	765	----------	----------	17,701
L-190	New Black Crystal Coal Co	Marion	41,159	13,786	----------	----------	27,373
L-195	Harrisburg Coal Co	Marion	37,961	24,128	----------	----------	13,833
L-199	Wilkins Coal Co. "New Spillertown"	Marion	52,811	25,981	----------	----------	21,650
L-200	Pure Coal Co	Marion	33,237	7,212	1,132	----------	24,893
L-201	New Black Diamond Coal Co	Marion	37,655	----------	3,533	----------	34,122
	Total—18 mines	----------	5,712,533	5,048,512	414,860	----------	200,515
	LOCAL MINES						
S-84	Independent Coal Co. "Turner #1"	Marion	440	----------	----------	----------	340
L-16	Orval J. Hillard Coal Co	Marion	2,390	----------	----------	----------	2,300
L-32	Moore & Son Coal Co	Marion	22,559	----------	----------	----------	22,559
L-42	Cherry Hill Coal Co	Marion	8,487	----------	----------	----------	8,487
L-47	Barbara Kay Coal Co	Marion	55,655	----------	----------	----------	55,655
L-146	Blue Bell Coal Co. #1	Marion	5,040	----------	----------	----------	5,030
L-174	Carterville Blue Blaze Coal Co	Carterville	4,076	----------	----------	----------	4,062
L-177	Parton Coal Co. #2	Creal Springs	3,120	----------	----------	----------	3,120
L-178	Frank Tregoning Coal Co. #1	Carterville	4,430	----------	----------	----------	4,430
L-208	Parton Coal Co. #1	Creal Springs	4,487	----------	----------	----------	4,487
L-209	Polinski Coal Co	Marion	500	----------	----------	----------	500
L-210	Spillertown Coal Co	Marion	150	----------	----------	----------	150
	Total—12 mines	----------	111,334	----------	----------	----------	111,120

TABLE 10—Continued

COUNTY

Disposition of output—tons		Total employees	Days of active operation	Explosives used for blasting coal				Number of—		Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
Tons consumed at the mine	All coal not sold including waste			Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors					
-------	-------	44	139	--------	--------	--------	--------	----	----	---------	---------	135,181	----	S-3

COUNTY

Disposition of output—tons		Total employees	Days of active operation	Explosives used for blasting coal				Number of—		Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground	Mine index number
Tons consumed at the mine	All coal not sold including waste			Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors					
1,898	-------	86	181	--------	--------	--------	2,750	----	----	---------	---------	674,140	----	S-4
468	837	363	184	--------	--------	* 5	--------	7	10	858,224	---------	---------	----	S-83
-------	-------	31	137	--------	--------	--------	14,150	----	----	---------	---------	191,812	----	S-87
1,471	38,369	444	157	--------	--------	* 5	--------	9	20	786,132	---------	---------	----	S-88
-------	-------	70	93	--------	--------	* 2	22,862	2	4	149,781	---------	---------	----	S-89
-------	-------	61	239	--------	--------	467,350	--------	----	----	---------	---------	451,138	----	S-92
-------	-------	259	223	--------	--------	* 5	--------	4	----	830,045	---------	---------	----	S-93
313	-------	190	165	--------	--------	* 3	--------	4	----	348,795	---------	---------	----	S-94
-------	-------	95	204	--------	--------	* 3	867	3	----	228,354	---------	---------	----	S-96
-------	-------	191	166	--------	--------	* 5	--------	4	1	530,578	---------	---------	----	S-99
110	-------	101	155	--------	--------	586,400	--------	----	----	---------	---------	440,913	----	S-100
-------	-------	3	28	--------	--------	--------	2,500	1	1	1,332	---------	---------	----	L-169
-------	-------	38	161	--------	--------	***	2,500	2	3	18,466	---------	---------	----	L-175
-------	-------	33	171	--------	--------	* 1	1,850	2	3	41,159	---------	---------	3	L-190
-------	-------	20	215	--------	12,500	--------	--------	1	2	37,961	---------	---------	----	L-195
-------	5,180	21	222	--------	--------	* 1	--------	1	2	52,811	---------	---------	----	L-199
-------	-------	23	192	--------	--------	***	58,796	2	4	33,237	---------	---------	----	L-200
-------	-------	23	188	--------	--------	****	--------	2	2	37,655	---------	---------	----	L-201
4,260	44,386	2,052	3,081	--------	12,500	1,053,750	106,275	44	52	3,954,530	---------	1,758,003	3	
-------	100	5	12	--------	--------	--------	250	2	1	440	---------	---------	----	S-84
10	80	6	104	--------	1,450	--------	--------	1	1	2,390	---------	---------	3	L-16
-------	-------	21	142	--------	--------	* 1	--------	1	2	22,559	---------	---------	----	L-32
-------	-------	21	89	--------	--------	--------	1,400	1	----	8,487	---------	---------	4	L-42
-------	-------	23	211	--------	--------	****	--------	2	2	55,655	---------	---------	----	L-47
10	-------	9	142	--------	3,200	--------	--------	1	2	5,040	---------	---------	----	L-146
4	10	10	97	--------	2,150	--------	--------	1	2	4,076	---------	---------	----	L-174
-------	-------	16	70	--------	--------	***	--------	1	----	3,120	---------	---------	1	L-177
-------	-------	7	120	--------	--------	--------	2,000	2	----	4,430	---------	---------	1	L-178
-------	-------	12	113	--------	1,000	--------	--------	1	----	4,487	---------	---------	2	L-208
-------	-------	1	200	--------	150	--------	--------	----	----	---------	---------	500	----	L-209
-------	-------	1	50	--------	--------	--------	50	----	----	---------	---------	150	----	L-210
24	190	132	1,350	--------	7,950	--------	3,700	13	10	110,684	---------	650	11	

* Airdox Machines. *** Chemechol. **** Armstrong Coal Breakers.

RECAPITULATION

	Disposition of output—tons				
	Total	Tons loaded on cars for shipment	Tons sold to railroad companies	Tons loaded on barge for shipment	Tons sold to local trade
Total—87 shipping mines	40,017,802	32,335,440	2,469,696	‡1,250,965	3,616,048
Total—119 local mines	1,757,950	----------	----------	251,750	1,476,305
Total—206 all mines	41,775,752	32,335,440	2,469,696	‡1,502,715	5,092,353

‡ 885 tons supplied to locomotives.

TABLE 10—Concluded

RECAPITULATION

Disposition of output—tons				Explosives used for blasting coal				Number of—					
Tons consumed at the mine	All coal not sold including waste	Total employees	Days of active operation	Powder—kegs	Pellet powder—pounds	Dynamite—pounds	Permissibles—pounds	Mining machines	Motors	Tons mined by machine	Tons mined by hand	Tons mined in strip mines	Number animals underground
108,229	237,424	15,252	13,370	-------	188,950	3,472,580	1,259,220	240	543	24,606,444	23,280	15,388,078	57
9,225	20,670	1,413	14,025	872	70,390	710,690	95,290	99	66	612,640	107,856	1,037,454	119
117,454	258,094	16,665	27,395	872	259,340	4,183,270	1,354,510	339	609	25,219,084	131,136	16,425,532	176

40 Mines Using 163 Airdox Machines.
3 Mines Using 19 Continuous Miners.
5 Mines Using Chemicol.
8 Mines Using 13 Armstrong Coal Breakers.
2 Mines Using L.O.X.

* Airdox Machines.
** Continuous Miners.
*** Chemechol.
**** Armstrong Coal Breakers
† L.O.X.

II PRODUCTION—TABLE 11—RAILROADS HANDLING COAL — TONS SOLD TO RAILROADS SERVING MINES—TONS SOLD TO RAILROADS NOT SERVING MINES—1954

Operators	Names of railroads	Tons shipped to market	Tons sold to railroads serving mines	Tons sold to railroads not serving mines	Tons to loco-motives at chute	Total tons handled by railroads
BUREAU COUNTY						
Midland Electric Coal Corp., #1	C. R. I. & P.	597,301	43,627			640,928
CHRISTIAN COUNTY						
Peabody Coal Co., #8	C. & I. M.	767,140				767,140
Peabody Coal Co., #17	I. C.	403,444	11,357			414,801
	N. Y. C.	1,418,696	30,322			1,449,018
	C. & E. I.	41,116	100			41,216
Peabody Coal Co., #10	C. & I. M.	2,471,844	88,026			2,559,870
Total		5,102,240	129,805			5,232,045
CLINTON COUNTY						
Breese Coal Co., Inc.	B. & O.	22,054	411			22,465
	S. S. W.			904		904
Total		22,054	411	904		23,369
DOUGLAS COUNTY						
Bell & Zoller Coal Co.	B. & O.	158,083	37			158,120
FRANKLIN COUNTY						
Chicago, Wilmington & Franklin Coal Co., #1	C. B. & Q.	281,649	18,315			299,964
	M. O. P.	80,992	2,612			83,604
	I. C.	211,321	19,980			231,301
	C. & E. I.	84,812	157			84,969
Chicago, Wilmington & Franklin Coal Co., #2	C. B. & Q.	339,299	22,064			361,363
	M. O. P.	97,570	3,147			100,717
	I. C.	254,576	24,070			278,646
	C. & E. I.	114,792	213			115,005
Old Ben Coal Corp., #14	C. B. & Q.	206,110	611			206,721
	I. C.	156,369	4,032			160,401
	Mo. Pac.	83,629	2,228			85,857
	C. & E. I.	3,979				3,979
Old Ben Coal Corp., #15	C. B. & Q.	1,126				1,126
	I. C.	6,515				6,515
	Mo. Pac.	5,546				5,546
	C. & E. I.	533				533
Old Ben Coal Corp., #22	C. B. & Q.	528,298	93,855			622,153
Old Ben Coal Corp., #9	C. B. & Q.	322,958	1,729			324,687
	I. C.	414,864	55,103			469,967
	Mo. Pac.	313,983	8,961			322,944
	C. & E. I.	194,591	2,108			196,699
Total		3,703,512	259,185			3,962,697
FULTON COUNTY						
Little Sister Coal Corp.	C. B. & Q.	130,303	8,903			139,206
	T. P. & W.	72,968				72,968
Pschirrer Coal Co., #3	C. B. & Q.	12,322				12,322
Truax-Traer Coal Co., "Red Ember"	C. B. & Q.	564,919	17,183			582,102
	N. K. P.			196		196
The United Electric Coal Cos., #9	C. B. & Q.	626,413	10,155			636,568
	T. P. & W.	162,825				162,825
The United Electric Coal Cos., #17	C. B. & Q.	9,056				9,056
	U. E. C. Cos.	885,475				885,475
Morgan Mines, Inc., "Morgan-Bryant"	C. B. & Q.	164,006				164,006
Fairview Collieries Corp., "Flamingo"	C. B. & Q.	189,607	7,659			197,266
	M. & St. L.	243,168	134,507			377,675
Key Coal Co.	C. B. & Q.	111,932	5,243			117,175
Total		3,172,994	183,650	196		3,356,840

II PRODUCTION—TABLE 11—Continued

Operators	Names of railroads	Tons shipped to market	Tons sold to railroads serving mines	Tons sold to railroads not serving mines	Tons to locomotives at chute	Total tons handled by railroads
HENRY COUNTY						
Alpha Coal Co.	C. B. & Q.	---	---	8,656	---	8,656
JACKSON COUNTY						
Truax-Traer Coal Co., #1 "Drift"	I. C.	212,505	78,657	---	---	291,162
	Mo. Pac.	88,515	8,068	---	---	96,583
Truax-Traer Coal Co., #1 "Strip"	I. C.	310,940	115,126	---	---	426,066
	Mo. Pac.	129,555	11,809	---	---	141,364
Joliana Coal Mining Co.	I. C.	24,507	10,178	---	---	34,685
Elk Coal Co.	I. C.	13,492	10,400	---	---	23,892
Co-op Coal Co.	I. C.	459	---	---	---	459
Total	---	779,973	234,238	---	---	1,014,211
JEFFERSON COUNTY						
Chicago, Wilmington & Franklin Coal Co., #3	C. B. & Q.	708,087	46,046	---	---	754,133
	I. C.	531,278	50,232	---	---	581,510
	M. O. P.	203,620	6,566	---	---	210,186
Total	---	1,442,985	102,844	---	---	1,545,829
KANKAKEE COUNTY						
Northern Illinois Coal Corp., #14E	G. M. & O.	344,907	---	---	---	344,907
	A. T. & S. F.	330,278	21,947	---	---	352,225
Total	---	675,185	21,947	---	---	697,132
KNOX COUNTY						
Stonefort Corp., "Little John"	G. & G. E.	358,385	1,878	---	---	360,263
	C. B. & Q.	---	---	3,719	---	3,719
Midland Electric Coal Corp., "Rapatee Strip, #1"	C. M. St. P. M. & O.	---	---	61,461	---	61,461
	C. N. & W.	66,869	230,955	---	---	297,824
	I. N.	---	---	49	---	49
	C. R. I. & P.	---	---	1,733	---	1,733
	M. & St. L.	388,021	1,322	---	---	389,343
	P. & P. U.	---	---	1,822	---	1,822
Midland Electric Coal Corp., "Middlegrove Strip, #2"	C. M. St. P. M. & O.	---	---	76	---	76
	C. N. & W.	327,483	4,637	---	---	332,120
	C. W. P. & S.	---	---	101	---	101
	C. R. I. & P.	---	---	487	---	487
	M. & St. L.	301,084	928	---	---	302,012
	P. & P. U.	---	---	90	---	90
Little Coal Co.	M. & St. L.	792	---	---	---	792
Total	---	1,442,634	239,720	69,538	---	1,751,892
MACOUPIN COUNTY						
Little Dog Coal Co.	I. T.	194,418	975	---	---	195,393
Superior Coal Co., #4	C. N. & W.	---	167,049	---	---	167,049
Virden Mining Corp.	G. M. & O.—Wabash	55,753	6,644	---	---	62,397
Total	---	250,171	174,668	---	---	424,839
MADISON COUNTY						
The Livingston-Mt. Olive Coal Co., #1	I. T.	---	---	107	---	107
	N. K. P.	---	---	12,983	---	12,983
	C. & W. I.	---	---	9,340	---	9,340
	C. G. W.	---	---	143	---	143
	B. R. C.	---	---	1,574	---	1,574
	N. Y. C.	19,217	1,058	---	---	20,275
	C. & E. I.	26,925	2,820	---	---	29,745

II PRODUCTION—TABLE 11—Continued

Operators	Names of railroads	Tons shipped to market	Tons sold to railroads serving mines	Tons sold to railroads not serving mines	Tons to locomotives at chute	Total tons handled by railroads
MADISON COUNTY—Concluded						
Mt. Olive & Staunton Coal Co., #2	L. & M.	171,740	450			172,190
	Ann Arbor			74,994		74,994
	Wabash			16,810		16,810
	N. Y. C. & St. L.			38,552		38,552
	B. R. C.			1,851		1,851
	C. & W. I.		1,867			1,867
	A. & S.		107			107
Lumaghi Coal Co., #4	Penn	7,505				7,505
Total		225,387	6,302	156,354		388,043
MARION COUNTY						
Marion County Coal Mining Corp.	I. C.	15,654				15,654
	C. B. & Q.	18,448	2,134			20,582
Total		34,102	2,134			36,236
MONTGOMERY COUNTY						
Freeman Coal Mining Corp., "Crown Mine"	I. C.	1,358,307				1,358,307
PERRY COUNTY						
Service Coal Co., #6	Mo. Pac.	2,464				2,464
Big 5 Coal Co.	Mo. Pac.		6,895			6,895
Peabody Coal Co., #14	I. C.	47,857	14,710		885	63,452
Cutler Coal Co., Inc.	Mo. Pac.	8,258	12,572			20,830
	N. K. P.			14,999		14,999
	Tenn. R. R. Ass'n			74		74
Truax-Traer Coal Co., "Pyramid"	I. C.	231,209	7,841			239,050
	Mo. Pac.	168,254	8,018			176,272
The United Electric Coal Cos., #11	I. C.	363,571	32,676			396,247
	Mo. Pac.	382,549	15,712			398,261
Union Colliery Co., "New Kathleen"	I. C.	1,280,931	12,555			1,293,486
Truax-Traer Coal Co., #2	I. C.	296,910	10,069			306,979
	Mo. Pac.	216,063	10,296			226,359
Total		2,998,066	131,344	15,073	885	3,145,368
RANDOLPH COUNTY						
Southwestern Illinois Coal Corp.	Mo. Pac.	456,041	17,030			473,071
	G. M. & O.	270,127	7,420			277,547
Moffat Coal Co.	G. M. & O.	121,670	7,973			129,643
	M. & I.	94,306	5,279			99,585
Midwest Utilities Coal Corp.	M. & I.	513,706	6,646			520,352
	I. T.			1,269		1,269
	N. Y. C. & St. L.			7,143		7,143
	M. T. & W.			368		368
	Other railroads			448		448
Ritter Coal Co., #3	G. M. & O.	29,983				29,983
	M. & I.	1,034				1,034
Total		1,486,867	44,348	9,228		1,540,443
ST. CLAIR COUNTY						
Golden Rule Coal Co.	I. C.	680				680
Perry Coal Co.	I. T.	383,387	272			383,659
St. Louis & O'Fallon Coal Co., #2	St. L. & O'Fallon	3,718	6,425			10,143
Seminole Coal Corp., #17	I. C.	290,011	13,537			303,548
New West Side Coal Co., Inc.	I. C.		9,693			9,693
Mid-Continent Coal Corp.	I. C.	368,679	128,299			496,978
Morgan Mines, Inc., "Wolz-Baltz Pit"	C. & M.	6,020				6,020
Total		1,052,495	158,226			1,210,721

II PRODUCTION—TABLE 11—Concluded

Operators	Names of railroads	Tons shipped to market	Tons sold to railroads serving mines	Tons sold to railroads not serving mines	Tons to locomotives at chute	Total tons handled by railroads
SALINE COUNTY						
Sahara Coal Co., Inc., #6	C. C. C. & St. L.	404,011	46,447			450,458
Sahara Coal Co., Inc., #5	C. C. C. & St. L.	329,495	8,147			337,642
Sahara Coal Co., Inc., #16	C. C. C. & St. L.	428,020	10,677			438,697
Sahara Coal Co., Inc., #7	C. C. C. & St. L.	47,338	1,276			48,614
Peabody Coal Co., #43	N. Y. C.	613,897				613,897
Peabody Coal Co., #40	N. Y. C.	115,654				115,654
Saxton Coal Corp., #2	N. Y. C.	122,561				122,561
Total		2,060,976	66,547			2,127,523
VERMILION COUNTY						
Fairview Collieries Corp.	N. Y. C.	616,175	4,510			620,685
V-Day Coal Co.	N. Y. C.	18,596				18,596
Total		634,771	4,510			639,281
WASHINGTON COUNTY						
Bois Coal Co., "Kuhn Mine"	I. C.	5,728				5,728
WILL COUNTY						
Wilmington Coal Mining Corp.	G. M. & O.	74,441				74,441
WILLIAMSON COUNTY						
Delta Collieries Corp.	I. C.	511,704	160,156			671,860
Bell & Zoller Coal Co., #2	C. & E. I.	486,146	733			486,879
	I. C.	166,393	35,976			202,369
	C. B. & Q.	57,046		20,416		77,462
	Mo. Pac.	78,995	447			79,442
Forsyth Carterville Coal Co.	I. C.	170,283	20,477			190,760
Bell & Zoller Coal Co., #3	I. C.	386,221	27,058			413,279
	C. B. & Q.	196,772	7,570			204,342
	Mo. Pac.	113,242	488			113,730
Blue Bird Coal Co., #7	N. Y. C.	125,181	22,484			147,665
Morgan Mines, Inc.	C. B. & Q.	143,440	18,805			162,245
	I. C.	187,623		24,662		212,285
	Mo. Pac.	54,832		3,518		58,350
Freeburn Mining Co., #3	I. C.	503,651	10,734			514,385
	C. B. & Q.	224,991	7,018			232,009
	Mo. Pac.	76,621	2,642			79,263
Carmac Coal Co.	I. C.	314,381	31,576			345,957
Blue Bird Coal Co., #8	N. Y. C.	218,904	3,799			222,703
Freeman Coal Mining Corp., #4	I. C.	500,253	795			501,048
	C. & E. I.	27,150	265			27,415
	Mo. Pac.	1,803				1,803
Stonefort Corp.	N. Y. C.	431,008	9,795			440,803
Strobel Coal Co.	N. Y. C.			781		781
C. & C. Coal Co.	N. Y. C.	765				765
New Black Crystal Coal Co.	I. C.	9,664				9,664
	N. Y. C.	4,122				4,122
Harrisburg Coal Co.	N. Y. C.	24,128				24,128
Wilkins Coal Co.	C. & E. I.	25,981				25,981
Pure Coal Co.	Mo. Pac.	7,212	1,132			8,344
New Black Diamond Coal Co.	Mo. Pac.		3,533			3,533
Total		5,048,512	365,483	49,377		5,463,372
Grand total		32,326,784	2,169,026	309,326	885	34,806,021

II PRODUCTION—TABLE 12—SPECIAL PREPARATION PLANTS

Name of operator	Address	Type and make of installation	Tonnage prepared or capacity of plant
Alpha Coal Co	Alpha	Oil Treating Plant	4,477
Bell & Zoller Coal Co., #2	Johnston City	McNally-Pittsburg Washer	858,224
Bell & Zoller Coal Co., #3	Zeigler	Chance Flotation Process	786,132
Bell & Zoller Coal Co	Murdock	Jeffery #200 Unit Wash Box	*100
Blue Bird Coal Co., #7	Harrisburg	Jeffery Washer	149,781
Blue Bird Coal Co., #8	Harrisburg	Jeffery Washer	228,354
Carmac Coal Co	Marion	Vibrating Screens, Wet Washer, Oil Treating	348,795
Chicago, Wilmington & Franklin Coal Co., #1	Orient	Deduster and Washer	720,283
Chicago, Wilmington & Franklin Coal Co., #2	West Frankfort	Deduster and Washer	974,758
Chicago, Wilmington & Franklin Coal Co., #3	Waltonville	Deduster and Washer	1,579,296
Co-op Coal Co	Carbondale	Shaker	1,331
Delta Collieries Corp	Marion	Baum Jig	674,140
Elk Coal Co	Elkville	Wemco Heavy Media	*125
Fairview Collieries Corp	Fairview	McNally-Pittsburg Washer	577,996
Fairview Collieries Corp	Danville	Baum Jig	720,373
Forsyth Carterville Coal Co	Carterville	McNally-Pittsburg Jig	191,812
Freeburn Mining Co., #3	Marion	Roberts & Schaefer	830,045
Freeman Coal Mining Corp., "Crown"	Farmersville	Roberts & Schaefer	1,600,716
Joliana Coal Mining Co	Elkville	Wemco Heavy Media	*125
Key Coal Co	Astoria	Washer	440,028
Little Coal Co	Farmington	Oil Treated	456
Little Dog Coal Co	Gillespie	Jeffery #100	246,976
Little Sister Coal Corp	St. David	Link-Belt Simon Carves	*600
Livingston-Mt. Olive Coal Co	Livingston	Heavy Media	14,000
Lumaghi Coal Co., #4	Collinsville	Jeffery Baum Jig	481,550
Marion County Coal Mining Corp	Centralia	Menzie Hydro	4,225
Mid-Continent Coal Corp	Marissa	McNally-Pittsburg Jig	*450
Midland Electric Coal Corp., #1	Atkinson	McNally-Norton	698,964
Midland Electric Coal Corp., #1	Farmington	Link-Belt Simon Carves, Koppers Rheo, Bixby McNally-Vissac Dryers	762,405
Midland Electric Coal Corp., #2	Farmington	Link-Belt Simon Carves, Koppers Rheo, Bixby McNally-Vissac Dryers	652,441
Midwest Utilities Coal Corp	Sparta	McNally-Pittsburg Link-Belt	542,299
Moffat Coal Co	Sparta	Link-Belt Simon Carves	295,412
Morgan Mines, Inc	Herrin	McNally-Pittsburg	†2,000
Morgan Mines, Inc	Millstadt	Jeffery	132,233
Mt. Olive & Staunton Coal Co	Staunton	Jeffery Baum	403,850
New Black Diamond Coal Co	Marion	Deister Tables	12,387
Old Ben Coal Corp., #9	West Frankfort	Calcium Chloride, American, & McNally-Pittsburg	1,433,521
Old Ben Coal Corp., #14	Buckner	Calcium Chloride & American	554,906
Old Ben Coal Corp., #15	West Frankfort	Calcium Chloride & McNally-Pittsburg	14,234
Old Ben Coal Corp., #22	Valier	McNally Heavy Media & Rheo Lauvre	624,073
Peabody Coal Co., #10	Pawnee	Jig Washer	2,645,923
Peabody Coal Co., #14	DuQuoin	Hydro	67,850
Peabody Coal Co., #17	Pana	Wet Washer	882,919
Peabody Coal Co., #40	Galatia	Hydro	115,654
Peabody Coal Co., #43	Harrisburg	Hydro	99,739
Perry Coal Co	O'Fallon	Jeffery Jig	791,529
Pschirrer Coal Co	Canton	Dedusting Plant	15,000
Pure Coal Co	Marion	Jig Type	11,037
Ritter Coal Co., #3	Sparta	Dedusting and Oiling	33,147
St. Louis & O'Fallon Coal Co., #2	Belleville	McNally-Pittsburg Automatic	143,617
Sahara Coal Co., Inc., #5	Harrisburg	Central Washing Plant	340,989
Sahara Coal Co., Inc., #6	Harrisburg	Central Washing Plant	454,051
Sahara Coal Co., Inc., #7	Harrisburg	Central Washing Plant	49,279
Sahara Coal Co., Inc., #16	Harrisburg	Central Washing Plant	443,388
Seminole Coal Corp., #17	Lenzburg	Pittsburg-McNally	665,693
Southwestern Illinois Coal Corp	Percy	Norton Wash Boxes	759,982
Stonefort Corporation	Victoria	Jeffery Baum Jig	363,982
Stonefort Corporation	Stonefort	Link-Belt, Baughman-Vertiuane & Cmi	440,913
Truax-Traer Coal Co., #1	Elkville	McNally-Norton Automatic Jig	413,363

* Tons per hour.
† Tons per day.

II PRODUCTION—TABLE 12—Concluded

Name of operator	Address	Type and make of installation	Tonnage prepared or capacity of plant
Truax-Traer Coal Co., "Strip #1"	Elkville	McNally-Norton Automatic Jig	604,927
Truax-Traer Coal Co., #2	Pinckneyville	McNally-Pittsburg	534,438
Truax-Traer Coal Co., "Pyramid"	Pinckneyville	McNally-Pittsburg	416,179
Truax-Traer Coal Co	Fiatt	McNally-Pittsburg	1,277,113
Union Colliery Co	DuQuoin	McNally-Pittsburg	*700
United Electric Coal Cos., #9	Cuba	McNally-Norton	802,501
United Electric Coal Cos., #11	DuQuoin	Koppers Rheo Laveur	919,357
United Electric Coal Cos., #17	Canton	Neldco Heavy Media	898,910
V-Day Coal Co	Danville	Calcium Chloride	42,849
Wilkins Coal Co	Marion	Wet Washed	22,000

* Tons per hour.

II PRODUCTION—TABLE 13—PHYSICAL AND MECHANICAL CHARACTERISTICS OF SHIPPING MINES

Mine index number	County, name of operator and mine	Post office address of mine	Tons of coal produced	Number of seam	Thickness of seam in feet	Shaft, slope, drift or strip	Depth surface to seam	Long wall or pillar and room	Mining	Haulage	Hoisting	Loading	Open or closed lights	Is mine rock dusted?
									Hand, machine or both	Mechanical mule or both	Steam or electric	Hand, machine or both		
	BUREAU COUNTY													
S-11	Midland Electric Coal Corp., #1	Atkinson	698,964	6	4'2"	Strip	48'	--------	--------	--------	--------	--------	--------	--------
	CHRISTIAN COUNTY													
S-3	Peabody Coal Co., #8	Tovey	777,444	6	7'2"	Shaft	372'	P & R	Machine	Motor	Electric	Machine	Closed	Yes
S-7	Peabody Coal Co., #17	Pana	1,980,718	6	8'	Shaft	713'	P & R	Machine	Motor	Electric	Machine	Closed	Yes
S-8	Peabody Coal Co., #10	Pawnee	2,645,923	6	7'2"	Slope	340'	P & R	Machine	Belt	Electric	Machine	Closed	Yes
	CLINTON COUNTY													
S-3	Breese Coal Co., Inc., "No. Breese"	Breese	55,857	6	7'	Shaft	420'	P & R	Machine	Both	Steam	Machine	Open	Yes
	DOUGLAS COUNTY													
S-1	Bell & Zoller Coal Co., "Murdock"	Murdock	250,380	6	7'	Shaft	207'	P & R	Machine	Motor	Electric	Machine	Closed	Yes
	FRANKLIN COUNTY													
S-3	Chicago, Wilmington & Franklin Coal Co., Orient #1	Orient	720,283	6	9'6"	Shaft	512'	P & R	Machine	Motor	Steam	Machine	Closed	Yes
S-4	Chicago, Wilmington & Franklin Coal Co., Orient #2	West Frankfort	974,758	6	9'2"	Shaft	491'	P & R	Machine	Motor	Electric	Machine	Closed	Yes
S-10	Old Ben Coal Corp., #14	Buckner	554,906	6	8'11"	Shaft	459'	Panel	Machine	Motor	Electric	Machine	Closed	Yes
S-11	Old Ben Coal Corp., #15	West Frankfort	14,234	6	8'	Shaft	426'	Panel	Machine	Motor	Electric	Machine	Closed	Yes
S-14	Old Ben Coal Corp., #22	Valier	624,073	6	8'4"	Shaft	578'	Panel	Machine	Motor	Electric	Machine	Closed	Yes
S-20	Old Ben Coal Corp., #9	West Frankfort	1,433,521	6	8'8"	Shaft	482'	Panel	Machine	Motor	Electric	Machine	Closed	Yes
	FULTON COUNTY													
S-2	Little Sister Coal Corp	St. David	658,702	5	4'11"	Strip	53'	--------	--------	--------	--------	--------	--------	--------
S-10	Pschirrer Coal Co., #3	Canton	28,907	5	4'2"	Shaft	150'	P & R	Machine	Motor	Electric	Machine	Open & closed	Yes
S-13	Truax-Traer Coal Co., "Red Ember"	Fiatt	1,277,113	5	4'6"	Strip	50'	--------	--------	--------	--------	--------	--------	--------
S-14	The United Electric Coal Cos., #9	Cuba	802,501	5	5'	Strip	54'	--------	--------	--------	--------	--------	--------	--------
S-15	The United Electric Coal Cos., #17	Canton	898,910	5	5'	Strip	66'	--------	--------	--------	--------	--------	--------	--------
S-39	Morgan Mines, Inc	Lewistown	164,006	5	4'6"	Strip	30'-55'	--------	--------	--------	--------	--------	--------	--------
S-40	Fairview Collieries Corp	Fairview	577,996	5	4'4"	Strip	48'	--------	--------	--------	--------	--------	--------	--------
S-41	Key Coal Co	Astoria	440,028	5	5'5"	Strip	45'	--------	--------	--------	--------	--------	--------	--------

	Henry County													
L-198	Alpha Coal Co.	Alpha	23,821	1	4′6″	Slope	157′	P & R	Machine	Motor	Belt-electric	Machine	Closed	Yes
	Jackson County													
S-1	Truax-Traer Coal Co.	Elkville	413,363	6	7′	Drift	60′-125′	P & R	Machine	Motor & shuttle car	--------	Machine	Closed	Yes
S-1	Truax-Traer Coal Co.	Elkville	604,927	5	3′6″	Strip	20′-50′	--------	--------	--------	--------	--------	--------	--------
*L-28	Joliana Coal Mining Co.	Elkville	38,333	6	8′	Shaft	145′	P & R	Machine	Motor	Electric	Machine	Closed	Yes
*L-28	Elk Coal Co.	Elkville	32,804	6	8′	Shaft	145′	P & R	Machine	Motor	Electric	Machine	Closed	Yes
L-54	Co-op Coal Co.	Carbondale	1,331	6	7′6″	Slope	176′	P & R	Both	Mule	Gasoline	Both	Open	Yes
	Jefferson County													
S-3	Chicago, Wilmington & Franklin Coal Co., #3	Waltonville	1,579,296	6	9′	Slope	800′	P & R	Machine	Motor & belt	Electric	Machine	Closed	Yes
	Kankakee County													
S-1	Northern Illinois Coal Corp., #14	Wilmington	834,905	7	3′	Strip	65′	--------	--------	--------	--------	--------	--------	--------
	Knox County													
S-2	Stonefort Corporation	Victoria	363,982	6	3′8″	Strip	37′	--------	--------	--------	--------	--------	--------	--------
S-3	Midland Electric Coal Corp., "Rapatee" Strip #1	Farmington	762,405	5	3′3″	Strip	32′	--------	--------	--------	--------	--------	--------	--------
S-3	Midland Electric Coal Corp., "Middlegrove" Strip #2	Farmington	652,441	6	3′4″	Strip	42′	--------	--------	--------	--------	--------	--------	--------
L-4	Little Coal Co.	Farmington	3,304	5	3′8″	Slope	135′	P & R	Hand	Both	Electric	Hand	Open	Yes
	Macoupin County													
S-3	Little Dog Coal Co.	Gillespie	246,976	6	7′6″	Shaft	347′	P & R	Machine	Motor	Electric	Machine	Closed	Yes
S-9	Superior Coal Co., #4	Gillespie	178,906	6	7′	Shaft	314′	P & R	Machine	Motor	Steam	Machine	Closed	Yes
S-10	Virden Mining Corp.	Virden	77,260	6	6′6″	Shaft	330′	P & R	Machine	Both	Steam	Hand	Closed	Yes
	Madison County													
S-3	The Livingston-Mt. Olive Coal Co., #1	Livingston	94,976	6	6′	Shaft	280′	P & R	Machine	Motor	Steam	Machine	Closed	Yes
S-6	Mt. Olive & Staunton Coal Co., #2	Staunton	403,850	6	6′6″	Shaft	312′	P & R	Machine	Motor	Steam	Machine	Closed	Yes
S-7	Lumaghi Coal Co., #4	Collinsville	490,299	6	8′	Slope	196′	P & R	Machine	Motor	Belt	Machine	Closed	Yes
	Marion County													
S-1	Marion County Coal Corp.	Centralia	69,382	6	6′6″	Shaft	600′	P & R	Machine	Motor	Steam	Machine	Closed	Yes
S-4	Freeman Coal Mining Corp.	Farmersville	1,600,716	6	7′	Shaft	354′	P & R	Machine	Belt & motors	Electric	Machine	Closed	Yes

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* Same mine, different management.

II PRODUCTION—TABLE 13—Concluded

Mine index number	County, name of operator and mine	Post office address of mine	Tons of coal produced	Number of seam	Thickness of seam in feet	Shaft, slope, drift or strip	Depth surface to seam	Long wall or pillar and room	Mining	Haulage	Hoisting	Loading	Open or closed lights	Is mine rock dusted
									Hand, machine or both	Mechanical mule or both	Steam or electric	Hand, machine or both		
	PERRY COUNTY													
S-2	Service Coal Co., #6	Pinckneyville	3,122	6	7'6"	Shaft	145'	P & R	Hand	Mule	Steam	Hand	Open	Yes
S-5	Big 5 Coal Co.	Conant	8,616	6	6'	Shaft	102'	P & R	Both	Both	Steam	Both	Both	Yes
S-6	Peabody Coal Co., #14	DuQuoin	67,850	6	7'6"	Shaft	400'	P & R	Machine	Motor	Steam	Machine	Closed	Yes
S-8	Cutler Coal Co., Inc.	Cutler	37,320	6	6'	Shaft	120'	P & R	Machine	Both	Steam	Hand	Closed	Yes
S-13	Truax-Traer Coal Co.	Pinckneyville	416,179	6	6'	Strip	26'-34'	-----	-----	-----	-----	-----	-----	-----
S-14	The United Electric Coal Cos., #11	DuQuoin	919,357	6	6'	Strip	61'	-----	-----	-----	-----	-----	-----	-----
S-32	Union Colliery Co.	DuQuoin	1,299,103	6	6'	Slope	85'	P & R	Machine	Belt	-----	Machine	Closed	Yes
S-33	Truax-Traer Coal Co., #2	Pinckneyville	534,438	6	5'4"	Strip	42'5"	-----	-----	-----	-----	-----	-----	-----
	RANDOLPH COUNTY													
S-7	Southwestern Illinois Coal Corp.	Percy	759,982	6	5'10"	Strip	48'	-----	-----	-----	-----	-----	-----	-----
S-15	Moffat Coal Co.	Sparta	295,412	6	6'	Slope	88'	P & R	Machine	Motor	Belt	Machine	Closed	Yes
S-17	Midwest Utilities Coal Corp.	Sparta	542,299	6	6'6"	Slope	203'	P & R	Machine	Belt	Belt	Machine	Closed	Yes
S-18	Ritter Coal Co., #3	Sparta	33,147	6	12'	Strip	35'	-----	-----	-----	-----	-----	-----	-----
	ST. CLAIR COUNTY													
S-3	Golden Rule Coal Co.	Lenzburg	1,005	6	6'6"	Slope	55'	P & R	Hand	Both	Steam	Hand	Closed	Yes
S-10	Perry Coal Co.	O'Fallon	791,529	6	6'6"	Slope	207'	P & R	Machine	Motor	Electric & belt	Machine	Closed	Yes
S-13	St. Louis & O'Fallon Coal Co., #2	Belleville	143,617	6	6'6"	Shaft	204'	P & R	Machine	Motor	Steam	Machine	Closed	Yes
S-93	Seminole Coal Corp., #17	Lenzburg	665,693	6	6'3"	Strip	45'	-----	-----	-----	-----	-----	-----	-----
L-15	New West Side Coal Co.	Marissa	11,572	6	6'6"	Shaft	90'	P & R	Both	Both	Electric	Hand	Open	Yes
L-87	Mid-Continent Coal Corp.	Marissa	541,040	6	7'	Slope	77'	P & R	Machine	Conveyor	Electric	Machine	Closed	Yes
L-92	Morgan Mines, Inc.	Millstadt	132,233	6	5'6"	Strip	35'	-----	-----	-----	-----	-----	-----	-----
	SALINE COUNTY													
S-1	Sahara Coal Co., Inc., #6	Harrisburg	454,051	6	4'8"	Strip	-----	-----	-----	-----	-----	-----	-----	-----
S-16	Sahara Coal Co., Inc., #5	Harrisburg	340,989	5	4'6"	Slope	135'	P & R	Machine	Motor-belt & shuttle car	Belt	Machine	Closed	Yes
S-39	Sahara Coal Co., Inc., #16	Harrisburg	443,388	5	6'	Slope	200'	P & R	Machine	Shuttle car & belt	Belt	Machine	Closed	Yes

S-40	Sahara Coal Co., Inc., #7	Harrisburg	49,279	5	5'3"	Slope	355'	P & R	Machine	Shuttle car & belt	Belt	Machine	Closed	Yes
S-43	Peabody Coal Co., #43	Harrisburg	614,392	5	4'6"	Slope	230'	P & R	Machine	Shuttle car & belt	Belt	Machine	Closed	Yes
S-46	Peabody Coal Co., #40	Galatia	115,654	5	4'2"	Slope	328'	P & R	Machine	Belt	Belt	Machine	Closed	Yes
S-50	Saxton Coal Corp., #2	Carrier Mills	122,561	2	2'10"-3'4"	Strip	30'-50'							
	VERMILION COUNTY													
S-61	Fairview Collieries Corp	Danville	720,373	7	5'10"	Strip	76'							
L-220	V-Day Coal Co	Danville	42,849	6	6'	Slope	140'	P & R	Machine	Motor	Electric	Machine	Closed	Yes
	WASHINGTON COUNTY													
S-3	Bois Coal Co	DuBois	10,537	6	5'8"	Shaft	300'	P & R	Hand	Mule	Steam	Hand	Open	Yes
	WILL COUNTY													
S-3	Wilmington Coal Mining Corp	Braidwood	135,181	2	3'4"	Strip	65'							
	WILLIAMSON COUNTY													
S-4	Delta Collieries Corp	Marion	674,140	6	5'1"	Strip	45'							
S-83	Bell & Zoller Coal Co., #2	Johnston City	858,224	6	7'8"	Slope	240'	P & R	Machine	Motor	Belt	Machine	Closed	Yes
S-87	Forsyth Carterville Coal Co	Carterville	191,812	5	3'6"	Strip	20'-55'							
S-88	Bell & Zoller Coal Co., #3	Zeigler	786,132	6	8'	Slope	162'	P & R	Machine	Motor	Electric	Machine	Closed	Yes
S-89	Blue Bird Coal Co., #7	Harrisburg	149,781	5	4'2"	Slope	185'	P & R	Machine	Shuttle car	Electric	Machine	Closed	Yes
S-92	Morgan Mines, Inc	Herrin	451,138	5	3'6"	Strip	40'							
S-93	Freeburn Mining Co., #3	Marion	830,045	6	8'6"	Shaft	216'	P & R	Machine	Belt	Electric	Machine	Closed	Yes
S-94	Carmac Coal Co	Marion	348,795	5	4'	Slope	100'	P & R	Machine	Shuttle car & belt	Belt	Machine	Closed	Yes
S-96	Blue Bird Coal Co., #8	Harrisburg	228,354	5	4'2"	Slope	175'	P & R	Machine	Shuttle car	Electric	Machine	Closed	Yes
S-99	Freeman Coal Mining Corp., #4	Marion	530,578	6	7'4"	Slope	275'	P & R	Machine	Belt	Electric	Machine	Closed	Yes
S-100	Stonefort Corporation	Stonefort	440,913	1	6'	Strip	48'							
L-169	Strobel Coal Co	Marion	1,332	5	4'4"	Slope	70'	P & R	Machine	Motor	Electric	Machine	Open	Yes
L-175	C. & C. Coal Co	Marion	18,466	5	4'4"	Slope	140'	P & R	Machine	Motor	Electric	Hand	Closed	Yes
L-190	New Black Crystal Coal Co	Marion	41,159	5	4'4"	Slope	120'	P & R	Machine	Both	Electric	Hand	Closed	Yes
L-195	Harrisburg Coal Co	Marion	37,961	5	4'2"	Slope	125'	P & R	Machine	Motor	Electric	Machine	Closed	Yes
L-199	Wilkins Coal Co	Marion	52,811	5	4'	Slope	86'	P & R	Machine	Motor	Electric	Machine	Closed	Yes
L-200	Pure Coal Co	Marion	33,237	6	8'	Slope	72'	P & R	Machine	Motor	Electric	Machine	Closed	Yes
L-201	New Black Diamond Coal Co	Marion	37,655	5	4'2"	Slope	80'	P & R	Machine	Motor & shuttle car	Electric	Machine	Closed	Yes

II PRODUCTION—TABLE 14—TOTAL PRODUCTION OF COAL IN TONS BY COUNTIES, 1882-1954

County	1954 production	Total production to date	County	1954 production	Total production to date
Adams		46,186	Marshall		12,516,141
Bond		7,355,569	Menard	13,737	13,339,460
Brown		57,324	Mercer		14,998,922
Bureau	698,964	48,973,061	Monroe		8,284
Calhoun		96,247	Montgomery	1,600,716	82,934,986
Cass		212,477	Morgan		190,787
Christian	5,404,085	210,762,255	Moultrie		2,032,236
Clark	3,252	3,252	Peoria	425,008	65,736,889
Clinton	120,260	38,253,539	Perry	3,289,295	160,627,621
Coles		198,932	Pike		5,081
Crawford		44,786	Pope		1,562
Douglas	250,380	1,147,028	Putnam		10,071,893
Edgar		915,698	Randolph	1,636,830	67,729,690
Effingham		796	Richland		154
Franklin	4,321,775	467,432,754	Rock Island		3,846,169
Fulton	4,957,915	174,185,859	St. Clair	2,844,064	222,938,976
Gallatin	95,971	4,690,770	Saline	2,170,617	187,700,872
Greene	3,000	627,244	Sangamon	106,257	232,467,714
Grundy	13,961	40,191,183	Schuyler	22,630	2,953,581
Hamilton		22,097	Scott		612,476
Hancock	23,520	639,687	Shelby		4,119,763
Hardin		40	Stark		1,227,280
Henry	29,213	21,890,447	Tazewell	9,330	17,628,525
Jackson	1,099,071	82,020,800	Vermilion	813,285	149,948,757
Jasper		23,739	Wabash		186,144
Jefferson	1,579,296	11,662,203	Warren	877	685,466
Jersey		120,350	Washington	18,956	17,753,942
Johnson		242,109	White		1,676,741
Kankakee	834,905	5,709,246	Will	135,181	36,680,206
Knox	1,810,964	27,403,771	Williamson	5,823,867	299,446,019
LaSalle	14,123	65,516,943	Woodford		7,810,160
Livingston	4,164	10,099,627			
Logan	32,597	14,234,242	Total Production, 1954	41,775,752	
Macon		11,000,468			
Macoupin	503,142	260,965,465	Total, 1882-1954		3,329,123,792
McDonough		2,634,903	Estimated Production (1833-1881)		73,386,123
McLean		5,544,139			
Madison	995,162	157,372,746			
Marion	69,382	38,949,313	Total Production, (1833-1954)		3,402,509,915

II PRODUCTION—TABLE 15—SUMMARY OF THE VARIOUS SEAMS OF COAL, KIND OF OPENING, MANNER OF WORKING AND TONS PRODUCED FROM EACH SEAM.

Number of seam	Number of—		Kind of opening				Manner of work			Total tons produced
	Counties	Mines	Shaft	Drift	Slope	Strip	Pillar and room	Longwall	Strip	
One	5	9	5		1	3	6		3	512,713
Two	10	17	1	2		14	3		14	336,720
Three										
Four										
Five	12	85	19	6	38	22	63		22	9,995,443
Six	23	82	37	1	22	22	60		22	29,313,101
Seven	4	13	1		5	7	6		7	1,617,775
Total	54	206	63	9	66	68	138		68	41,775,752

III *Labor and Employment*

Mine index number	County, name of operator and name or number of mine	Post office of mine	Underground												
			Brattice men	Cagers	Shuttle car operators	Electricians and helpers	Mechanical loading machine helpers	Mechanical loading machine operators	Mine examiners	Mine managers and assts.	Machine miners	Pick miners	Motormen and assistants	Machine helpers	Machine runners
	Bureau County														
S-11	Midland Electric Coal Corp., #1	Atkinson	---	---	---	---	----	----	---	---	---	---	------	---	---
	Christian County														
S-3	Peabody Coal Co., #8	Tovey	18	3	---	68	----	32	8	6	---	---	104	16	16
S-7	Peabody Coal Co., #17	Pana	10	4	52	78	----	17	5	31	---	---	38	17	17
S-8	Peabody Coal Co., #10	Pawnee	14	3	---	81	----	16	4	31	---	---	17	17	17
	Total		42	10	52	227	----	65	17	68	---	---	159	50	50
	Clinton County														
S-3	Breese Coal Co., Inc., "North Breese"	Breese	---	2	---	3	----	4	1	1	---	---	4	3	3
	Douglas County														
S-1	Bell & Zoller Coal Co.	Murdock	---	2	---	3	----	4	3	3	---	---	6	4	4
	Franklin County														
S-3	Chicago, Wilmington & Franklin Coal Co., #1	Orient	4	3	---	---	----	10	6	11	---	---	56	---	20
S-4	Chicago, Wilmington & Franklin Coal Co., #2	West Frankfort	15	5	---	33	----	28	14	39	---	---	125	14	14
S-10	Old Ben Coal Corp., #14	Buckner	4	2	---	24	----	10	7	18	---	---	57	10	10
S-11	Old Ben Coal Corp., #15	West Frankfort	2	1	---	15	----	7	7	9	---	---	33	9	8
S-14	Old Ben Coal Corp., #22	Valier	4	4	---	38	----	16	8	23	---	---	67	14	14
S-20	Old Ben Coal Corp., #9	West Frankfort	3	4	---	47	----	24	10	26	---	---	108	16	16
	Total		32	19	---	157	----	95	52	126	---	---	446	63	82
	Fulton County														
S-2	Little Sister Coal Corp., "Little Sister"	St. David	---	---	---	---	----	----	---	---	---	---	------	---	---
S-10	Pschirrer Coal Co., #3	Canton	---	1	---	---	----	6	1	1	8	---	2	---	6
S-13	Truax-Traer Coal Co., "Red Ember"	Fiatt	---	---	---	---	----	----	---	---	---	---	------	---	---
S-14	The United Electric Coal Cos., #9	Cuba	---	---	---	---	----	----	---	---	---	---	------	---	---
S-16	The United Electric Coal Cos., #17	Canton	---	---	---	---	----	----	---	---	---	---	------	---	---
S-39	Morgan Mines, Inc.	Lewistown	---	---	---	---	----	----	---	---	---	---	------	---	---
S-40	Fairview Collieries Corp.	Fairview	---	---	---	---	----	----	---	---	---	---	------	---	---
S-41	Key Coal Co.	Astoria	---	---	---	---	----	----	---	---	---	---	------	---	---
	Total		---	1	---	---	----	6	1	1	8	---	2	---	6
	Henry County														
L-198	Alpha Coal Co.	Alpha	---	---	3	1	----	3	1	1	---	---	2	---	2
	Jackson County														
S-1	Truax-Traer Coal Co., "Drift #1"	Elkville	2	---	---	13	----	5	2	8	---	---	18	5	5
S-1	Truax-Traer Coal Co., "Strip #1"	Elkville	---	---	---	---	----	----	---	---	---	---	------	---	---
L-28*	Joliana Coal Mining Co.	Elkville	2	4	---	5	----	8	2	5	---	---	14	4	4
L-28*	Elk Coal Co.	Elkville	---	1	10	4	----	3	---	1	---	---	------	2	2
L-54	Co-op Coal Co., #1	Carbondale	---	---	---	---	----	----	1	1	---	3	------	---	---
	Total		3	3	5	17	----	10	4	12	---	3	25	8	8
	Jefferson County														
S-3	Chicago, Wilmington & Franklin Coal Co., #3	Waltonville	8	3	60	4	----	----	6	26	49	---	------	---	---

* Number of employees averaged account different management of same mine.

CLASSIFICATION OF MINE EMPLOYEES

Underground										On surface																	
													Engineers														
Pumpmen and pipemen	Shot firers	Shooters and drillers	Roof bolters	Beltmen	Timbermen	Trackmen	Repairmen	All others underground	Total underground	Blacksmith	Blacksmith helpers	Carpenters	Hoisting	Other	Firemen	Top foremen	Machinists and helpers	Picking table workers	Superintendents	Repairmen—top	Watchmen	Weighmen	Office employees at mine	Others on surface	Total on surface	Total—all employees	Mine index number
---	---	---	---	---	---	---	---	------	------	7	---	---	9	5	---	6	2	2	1	---	1	2	5	84	124	124	S-11
4	---	---	---	---	72	74	---	122	543	10	---	1	3	---	---	2	8	40	1	---	2	6	8	72	153	696	S-3
6	---	34	---	---	60	12	---	173	554	3	---	3	5	---	---	3	5	4	1	---	2	2	10	83	121	675	S-7
4	---	---	---	---	53	4	---	309	570	3	---	1	3	---	---	2	4	---	1	---	2	2	10	73	101	671	S-8
14	---	34	---	---	185	90	---	604	1,667	16	---	5	11	---	---	7	17	44	3	---	6	10	28	228	375	2,042	
1	6	---	---	---	10	10	---	9	57	1	---	1	1	1	5	1	1	8	---	---	---	1	2	2	24	81	S-3
---	4	---	---	---	4	---	---	20	57	---	---	---	3	---	---	1	---	---	---	---	---	---	1	9	14	71	S-1
1	---	---	---	---	7	14	---	156	288	1	---	1	4	---	3	4	4	7	1	---	4	1	5	65	100	388	S-3
3	26	---	---	---	43	22	---	104	485	4	---	1	8	---	3	8	7	10	1	---	3	1	12	147	205	690	S-4
1	34	---	---	---	17	13	---	40	247	---	---	5	3	---	3	2	---	8	3	---	2	2	13	48	89	336	S-10
---	---	23	---	---	11	42	---	8	175	1	---	3	2	2	3	2	10	10	2	---	2	1	1	51	90	265	S-11
---	---	36	---	---	42	17	---	65	348	1	---	3	2	3	3	2	---	---	3	---	2	2	12	62	95	443	S-14
---	---	57	---	---	50	16	---	54	431	2	---	---	4	2	3	2	---	10	3	---	5	2	13	109	155	586	S-20
5	60	116	---	---	170	124	---	427	1,974	9	---	13	23	7	18	20	21	45	13	---	18	9	56	482	734	2,708	
---	---	---	---	---	---	---	---	------	------	---	---	---	---	---	3	4	---	---	1	---	1	2	5	113	129	129	S-2
---	---	---	---	---	6	---	---	------	31	1	---	---	1	---	---	1	---	---	1	---	1	---	1	4	10	41	S-10
---	---	---	---	---	---	---	---	------	------	14	---	---	2	---	3	5	---	---	1	21	9	1	10	154	220	220	S-13
---	---	---	---	---	---	---	---	------	------	1	---	---	---	---	---	2	1	1	1	4	3	1	3	92	109	109	S-14
---	---	---	---	---	---	---	---	------	------	1	---	2	---	---	---	4	---	---	2	9	3	1	3	142	167	167	S-15
---	---	---	---	---	---	---	---	------	------	---	---	---	---	9	---	2	---	3	---	---	1	1	---	20	36	36	S-39
---	---	---	---	---	---	---	---	------	------	1	---	---	---	---	3	3	2	---	1	---	2	1	3	81	97	97	S-40
---	---	---	---	---	---	---	---	------	------	---	---	---	---	5	4	1	6	---	1	---	---	---	2	39	58	58	S-41
---	---	---	---	---	6	---	---	------	31	18	---	2	3	14	13	22	9	4	8	34	20	7	27	645	826	857	
---	1	---	---	---	---	---	---	------	14	---	---	---	1	---	---	---	---	2	1	---	---	---	---	------	4	18	L-198
2	---	16	4	---	---	9	---	18	107	1	---	1	---	---	1	2	1	1	1	---	1	---	3	32	44	151	S-1
---	---	---	---	---	---	---	---	------	------	1	---	1	---	1	2	6	1	2	1	---	2	1	4	96	118	118	S-1
---	---	13	---	---	1	3	---	------	65	3	---	---	3	---	---	---	---	---	1	---	---	1	2	9	19	84	L-28
---	---	2	---	---	1	1	---	2	29	1	---	---	1	---	---	---	---	1	---	---	1	---	1	3	8	37	L-28
---	---	---	---	---	---	---	---	1	6	---	---	---	1	---	---	1	---	---	---	---	---	---	---	------	2	8	L-54
2	---	24	4	---	1	11	---	20	160	4	---	2	3	1	3	9	2	3	3	---	3	2	8	134	177	337	
2	---	---	---	---	30	7	---	94	289	2	---	---	1	4	3	6	7	---	2	---	3	2	9	92	131	420	S-3

Mine index number	County, name of operator and name or number of mine	Post office of mine	Underground												
			Brattice men	Cagers	Shuttle car operators	Electricians and helpers	Mechanical loading machine helpers	Mechanical loading machine operators	Mine examiners	Mine managers and assts.	Machine miners	Pick miners	Motormen and assistants	Machine helpers	Machine runners
	KANKAKEE COUNTY														
S-1	Northern Illinois Coal Corp., #14E	Wilmington	---	---	---	---	----	----	---	---	---	---	------	---	---
	KNOX COUNTY														
S-2	Stonefort Corp., "Little John"	Victoria	---	---	---	---	----	----	---	---	---	---	------	---	---
S-3	Midland Electric Coal Corp., "Rapatee Strip #1"	Farmington	---	---	---	---	----	----	---	---	---	---	------	---	---
S-3	Midland Electric Coal Corp., "Middlegrove Strip #2"	Farmington	---	---	---	---	----	----	---	---	---	---	------	---	---
L-4	Little Coal Co	Farmington	---	---	---	---	----	----	---	2	---	7	------	1	1
	Total		---	---	---	---	----	----	---	2	---	7	------	1	1
	MACOUPIN COUNTY														
S-3	Little Dog Coal Co	Gillespie	3	2	---	8	----	4	2	6	---	---	18	4	4
S-9	Superior Coal Co., #4	Gillespie	8	3	---	16	----	18	7	10	---	---	45	5	5
S-10	Virden Mining Corp., "North Mine"	Virden	1	2	---	---	----	----	2	1	---	66	4	3	3
	Total		12	7	---	24	----	22	11	17	---	66	67	12	12
	MADISON COUNTY														
S-3	The Livingston Mt. Olive Coal Co., #1	Livingston	1	1	---	5	----	5	1	2	---	---	18	5	5
S-6	Mt. Olive & Staunton Coal Co., #2	Staunton	3	2	---	17	----	20	6	12	---	---	56	5	5
S-7	Lumaghi Coal Co., #4	Collinsville	2	---	---	19	----	10	4	8	---	---	25	5	5
	Total		6	3	---	41	----	35	11	22	---	---	99	15	15
	MARION COUNTY														
S-1	Marion County Coal Mining Corp	Marion	---	1	---	6	----	5	2	2	---	---	11	5	5
	MONTGOMERY COUNTY														
S-4	Freeman Coal Mining Corp., "Crown Mine"	Farmersville	38	6	35	36	----	16	2	27	---	---	8	16	16
	PERRY COUNTY														
S-2	Service Coal Co., #6	Pinckneyville	---	---	---	---	----	----	1	1	---	4	------	---	---
S-5	Big 5 Coal Co., "Conant"	Conant	---	---	---	---	----	1	1	1	---	2	1	---	---
S-6	Peabody Coal Co., #14	DuQuoin	4	2	---	20	----	40	6	16	---	---	46	20	20
S-8	Cutler Coal Co., Inc	Cutler	---	2	---	1	----	----	1	1	---	40	1	3	3
S-13	Truax-Traer Coal Co., "Pyramid"	Pinckneyville	---	---	---	---	----	----	---	---	---	---	------	---	---
S-14	The United Electric Coal Co., #11	DuQuoin	---	---	---	---	----	----	---	---	---	---	------	---	---
S-32	Union Colliery Co., "New Kathleen"	DuQuoin	4	---	24	22	----	30	2	20	---	---	5	12	14
S-33	Truax-Traer Coal Co., #2	Pinckneyville	---	---	---	---	----	----	---	---	---	---	------	---	---
	Total		8	4	24	43	----	71	11	39	---	46	53	35	37
	RANDOLPH COUNTY														
S-7	Southwestern Illinois Coal Corp., "Streamline"	Percy	---	---	---	---	----	----	---	---	---	---	------	---	---
S-15	Moffat Coal Co	Sparta	2	1	15	8	----	5	4	8	---	---	8	5	5
S-17	Midwest Utilities Coal Corp., "Bradbury"	Sparta	1	---	10	11	4	6	1	8	---	---	------	6	7
S-18	Ritter Coal Co., "Red Fox #3"	Sparta	---	---	---	---	----	----	---	---	---	---	------	---	---
	Total		3	1	25	19	4	11	5	16	---	---	8	11	12

TABLE 16—Continued

Underground										On surface																	
													Engineers														
Pumpmen and pipemen	Shot firers	Shooters and drillers	Roof bolters	Beltmen	Timbermen	Trackmen	Repairmen	All others underground	Total underground	Blacksmith	Blacksmith helpers	Carpenters	Hoisting	Other	Firemen	Top foremen	Machinists and helpers	Picking table workers	Superintendents	Repairmen—top	Watchmen	Weighmen	Office employees at mine	Others on surface	Total on surface	Total—all employees	Mine index number
---	---	---	---	---	---	---	---	------	------	1	---	2	---	3	---	9	2	---	1	---	3	1	8	166	196	196	S-1
---	---	---	---	---	---	---	---	------	------	2	---	---	---	16	3	3	4	6	1	---	---	---	6	75	116	116	S-2
---	---	---	---	---	---	---	---	------	------	1	---	1	---	3	---	7	2	2	1	---	3	1	1	97	119	119	S-3
---	---	---	---	---	---	---	---	------	------	2	---	2	---	3	---	8	2	1	1	---	4	1	2	107	133	133	S-3
---	---	---	---	---	---	---	---	1	12	---	---	---	---	1	---	---	---	---	1	---	---	---	---	------	2	14	L-4
---	---	---	---	---	---	---	---	1	12	5	---	3	---	23	3	18	8	9	4	---	7	2	9	279	370	382	
---	---	4	---	---	4	3	---	45	107	1	---	---	3	---	---	1	8	5	1	---	---	2	2	12	35	142	S-3
---	---	---	---	---	29	30	---	94	270	3	---	---	4	---	10	2	---	21	---	---	---	---	---	19	59	329	S-9
1	4	---	---	---	2	4	---	9	102	1	---	1	3	---	1	---	---	3	1	---	1	1	2	4	18	120	S-10
1	4	4	---	---	35	37	---	148	479	5	---	1	10	---	11	3	8	29	2	---	1	3	4	35	112	591	
---	5	---	---	---	10	10	---	38	106	2	---	3	3	---	4	1	1	7	---	---	1	1	3	8	34	140	S-3
---	---	---	---	---	12	32	---	60	230	4	---	1	4	2	7	1	3	12	1	---	---	1	5	25	66	296	S-6
---	---	---	---	---	16	18	---	57	169	---	---	---	---	1	4	3	10	2	2	---	1	---	5	33	61	230	S-7
---	5	---	---	---	38	60	---	155	505	6	---	4	7	3	15	5	14	21	3	---	2	2	13	66	161	666	
---	---	---	---	---	3	3	---	11	54	3	---	3	3	---	5	---	---	4	1	---	2	1	2	4	28	82	S-1
8	---	30	68	15	---	10	---	93	424	3	---	4	3	3	3	5	16	---	1	---	2	---	13	75	128	552	S-4
---	2	---	---	---	---	---	---	2	10	---	---	---	---	1	---	---	---	---	---	---	---	---	1	1	3	13	S-2
---	2	---	---	---	---	1	---	3	12	---	---	---	1	1	---	---	---	---	---	---	---	---	---	------	2	14	S-5
2	10	---	---	---	10	10	---	113	319	2	---	2	4	---	3	3	10	10	1	---	2	2	6	54	99	418	S-6
---	---	4	---	---	1	2	---	5	64	1	---	---	1	1	1	---	---	4	---	---	---	1	1	4	14	78	S-8
---	---	---	---	---	---	---	---	------	------	---	---	1	---	2	3	8	1	3	1	---	3	1	4	101	128	128	S-13
---	---	---	---	---	---	---	---	------	------	1	---	2	---	---	3	7	1	---	1	4	---	1	3	128	151	151	S-14
1	24	26	26	10	2	2	---	35	259	1	---	1	---	---	---	4	4	18	1	14	---	2	6	34	85	344	S-32
---	---	---	---	---	---	---	---	------	------	---	---	2	---	2	---	4	---	---	1	---	3	---	4	66	82	82	S-33
3	38	30	26	10	13	15	---	158	664	5	---	8	6	7	10	26	16	35	5	18	8	7	25	388	564	1,228	
---	---	---	---	---	---	---	---	------	------	1	---	1	---	2	---	5	4	2	2	---	1	1	4	90	113	113	S-7
---	---	10	---	---	---	7	---	49	127	1	---	1	2	---	3	3	8	5	1	---	5	2	1	32	64	191	S-15
---	---	22	14	---	---	---	---	12	102	---	---	---	---	1	---	3	---	---	1	---	2	---	4	17	28	130	S-17
---	---	---	---	---	---	---	---	------	------	---	---	---	---	---	---	---	1	1	---	---	---	---	---	8	10	10	S-18
---	---	32	14	---	---	7	---	61	229	2	---	2	2	3	3	11	13	8	4	---	8	3	9	147	215	444	

Mine index number	County, name of operator and name or number of mine	Post office of mine	Underground												
			Brattice men	Cagers	Shuttle car operators	Electricians and helpers	Mechanical loading machine helpers	Mechanical loading machine operators	Mine examiners	Mine managers and assts.	Machine miners	Pick miners	Motormen and assistants	Machine helpers	Machine runners
	ST. CLAIR COUNTY														
S-3	Golden Rule Coal Co.	Lenzburg	---	1	---	---	---	---	1	1	---	12	1	---	---
S-10	Perry Coal Co., "St. Ellen"	O'Fallon	3	---	---	22	---	8	3	13	---	---	32	8	8
S-13	St. Louis & O'Fallon Coal Co., "Black Eagle #2"	Belleville	1	2	---	8	---	10	2	5	18	---	24	4	4
S-93	Seminole Coal Corp., #17	Lenzburg	---	---	---	---	---	---	---	---	---	---	---	---	---
L-15	New West Side Coal Co., Inc.	Marissa	---	---	---	---	---	---	1	---	1	---	1	---	---
L-87	Mid-Continent Coal Corp., "Green Diamond"	Marissa	2	---	12	7	4	4	1	6	---	---	---	4	4
L-92	Morgan Mines, Inc., "Wolz-Baltz"	Millstadt	---	---	---	---	---	---	---	---	---	---	---	---	---
	Total		6	3	12	37	4	22	8	25	19	12	58	16	16
	SALINE COUNTY														
S-1	Sahara Coal Co., Inc., #6	Harrisburg	---	---	---	---	---	---	---	---	---	---	---	---	---
S-16	Sahara Coal Co., Inc., #5	Harrisburg	3	---	24	10	22	22	4	12	---	---	---	22	22
S-39	Sahara Coal Co., Inc., #16	Harrisburg	3	---	16	8	8	8	3	12	---	---	---	10	10
S-40	Sahara Coal Co., Inc., #7	Harrisburg	2	---	16	9	8	8	3	8	---	---	---	12	12
S-43	Peabody Coal Co., #43	Harrisburg	3	2	12	15	---	12	4	9	---	---	6	6	6
S-46	Peabody Coal Co., #40	Galatia	5	2	24	21	---	12	5	21	---	---	3	12	12
S-50	Saxton Coal Corp., "New Castle #2"	Carrier Mills	---	---	---	---	---	---	---	---	---	---	---	---	---
	Total		16	4	92	63	38	62	19	62	---	---	9	62	62
	VERMILION COUNTY														
S-61	Fairview Collieries Corp., "Harmattan"	Danville	---	---	---	---	---	---	---	---	---	---	---	---	---
L-220	V-Day Coal Co.	Danville	---	1	---	1	---	4	---	1	---	---	3	1	1
	Total		---	1	---	1	---	4	---	1	---	---	3	1	1
	WASHINGTON COUNTY														
S-3	Bois Coal Co., "Kuhn"	DuBois	---	1	---	---	---	---	1	1	---	25	---	---	---
	WILL COUNTY														
S-3	Wilmington Coal Mining Corp.	Braidwood	---	---	---	---	---	---	---	---	---	---	---	---	---
	WILLIAMSON COUNTY														
S-4	Delta Collieries Corp., "Delta"	Marion	---	---	---	---	---	---	---	---	---	---	---	---	---
S-83	Bell & Zoller Coal Co., "Buckhorn #2"	Johnston City	5	2	---	12	---	12	6	14	---	---	11	14	14
S-87	Forsyth Carterville Coal Co.	Carterville	---	---	---	---	---	---	---	---	---	---	---	---	---
S-88	Bell & Zoller Coal Co., "Zeigler #3"	Zeigler	2	2	---	28	---	28	4	22	---	---	33	14	14
S-89	Blue Bird Coal Co., #7	Harrisburg	---	---	---	4	---	10	2	2	---	---	8	6	6
S-92	Morgan Mines, Inc.	Herrin	---	---	---	---	---	---	---	---	---	---	---	---	---
S-93	Freeburn Mining Co., #3	Marion	4	2	18	16	---	20	3	9	---	---	---	8	8
S-94	Carmac Coal Co.	Marion	2	---	14	19	---	8	4	9	---	---	---	8	8
S-96	Blue Bird Coal Co., #8	Harrisburg	---	---	---	6	---	12	2	8	---	---	14	6	6
S-99	Freeman Coal Mining Corp., #4	Marion	4	---	---	9	---	16	4	8	---	---	---	8	8
S-100	Stonefort Corp., "Will Scarlet"	Stonefort	---	---	---	---	---	---	---	---	---	---	---	---	---
L-169	Strobel Coal Co.	Marion	---	---	---	---	---	---	---	---	---	---	1	---	1
L-175	C. & C. Coal Co.	Marion	---	---	---	---	---	---	1	1	---	18	3	2	2
L-190	New Black Crystal Coal Co.	Marion	1	---	---	---	---	---	1	1	18	---	1	1	1
L-195	Harrisburg Coal Co.	Marion	---	1	1	---	---	1	---	1	1	---	2	1	1
L-199	Wilkins Coal Co., "New Spillertown"	Marion	---	1	2	---	---	1	---	1	---	---	2	1	1
L-200	Pure Coal Co.	Marion	---	1	---	1	---	1	---	1	---	---	2	2	2
L-201	New Black Diamond Coal Co.	Marion	---	1	---	---	---	2	---	1	---	---	2	1	1
	Total		18	10	35	95	---	111	27	78	19	18	79	72	73
	Grand total		192	81	343	777	46	546	182	530	95	177	1,039	374	405

TABLE 16—Concluded

Underground										On surface																	
													Engineers														
Pumpmen and pipemen	Shot firers	Shooters and drillers	Roof bolters	Beltmen	Timbermen	Trackmen	Repairmen	All others underground	Total underground	Blacksmith	Blacksmith helpers	Carpenters	Hoisting	Other	Firemen	Top foremen	Machinists and helpers	Picking table workers	Superintendents	Repairmen—top	Watchmen	Weighmen	Office employees at mine	Others on surface	Total on surface	Total—all employees	Mine index number
---	3	---	---	---	---	---	---	2	21	1	---	---	1	---	1	---	---	1	---	---	---	---	1	------	5	26	S-3
---	16	---	---	---	16	40	---	114	283	1	---	1	---	---	---	4	1	2	1	---	1	---	8	34	53	336	S-10
---	10	---	---	---	9	22	---	12	131	2	---	1	3	---	5	2	1	13	1	---	---	---	3	27	58	189	S-13
---	---	---	---	---	---	---	---	------	------	---	---	---	---	1	---	5	1	2	1	---	---	2	2	77	91	91	S-93
---	---	4	---	---	1	1	---	11	20	---	---	---	1	---	---	1	---	---	---	---	---	1	1	------	4	24	L-15
4	---	16	12	---	13	---	---	6	95	1	---	3	---	---	---	3	---	4	1	---	1	---	4	15	32	127	L-87
---	---	---	---	---	---	---	---	------	------	---	---	---	---	---	---	2	---	---	1	---	---	3	3	32	41	41	L-92
4	29	20	12	---	39	63	---	145	550	5	---	5	5	1	6	17	3	22	5	---	2	6	22	185	284	834	
---	---	---	---	---	---	---	---	------	------	2	---	---	---	---	---	10	---	2	1	---	1	---	2	151	169	169	S-1
1	---	22	---	14	8	---	---	36	222	---	---	---	---	---	---	3	---	7	1	---	---	---	1	61	73	295	S-16
---	---	24	---	10	8	---	---	23	143	---	---	---	---	---	---	---	---	---	1	---	---	---	2	15	18	161	S-39
2	---	24	---	10	4	1	---	11	130	---	---	---	---	---	---	3	---	7	1	---	---	---	2	57	70	200	S-40
1	---	24	---	12	6	2	---	40	160	1	---	1	3	---	---	2	7	8	1	---	2	2	3	10	40	200	S-43
1	---	18	---	---	27	---	---	75	238	2	---	1	3	---	---	2	1	4	1	---	1	---	5	15	35	273	S-46
---	---	---	---	---	---	---	---	------	------	---	---	---	---	---	---	2	---	---	1	---	---	---	1	40	44	44	S-50
5	---	112	---	46	53	3	---	185	893	5	---	2	6	---	---	22	8	28	7	---	4	2	16	349	449	1,342	
---	---	---	---	---	---	---	---	------	------	1	---	---	---	---	1	4	2	---	1	---	2	1	5	98	115	115	S-61
---	1	---	---	---	3	3	---	3	22	---	---	---	1	---	---	1	---	2	1	---	1	---	---	------	6	28	L-220
---	1	---	---	---	3	3	---	3	22	1	---	---	1	---	1	5	2	2	2	---	3	1	5	98	121	143	
---	---	---	---	---	---	1	---	4	33	---	---	---	2	---	---	---	---	1	1	---	---	1	---	------	5	38	S-3
---	---	---	---	---	---	---	---	------	------	---	---	---	---	---	---	2	---	4	---	---	---	---	3	35	44	44	S-3
---	---	---	---	---	---	---	---	------	------	---	---	---	---	---	---	7	2	18	1	---	---	1	2	55	86	86	S-4
2	---	---	---	---	12	4	---	144	252	1	---	1	3	---	---	1	4	---	1	---	4	2	8	86	111	363	S-83
---	---	---	---	---	---	---	---	------	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	31	31	31	S-87
---	14	---	---	---	46	12	---	114	333	---	---	---	3	---	---	7	---	---	1	---	1	---	7	92	111	444	S-88
---	4	---	---	---	---	---	---	23	65	---	---	---	---	---	---	---	---	---	---	---	---	---	1	4	5	70	S-89
---	---	---	---	---	---	---	---	------	------	---	---	1	---	---	---	3	---	---	1	---	1	1	2	52	61	61	S-92
3	---	24	---	---	8	---	---	36	159	1	---	1	3	3	3	5	1	2	1	---	---	3	8	69	100	259	S-93
2	---	28	---	---	---	---	---	50	152	1	---	1	3	1	---	2	1	---	1	---	1	---	3	24	38	190	S-94
---	6	---	---	---	---	---	---	26	86	---	---	---	---	---	---	1	2	---	---	---	1	---	---	5	9	95	S-96
1	---	8	16	---	---	---	---	62	144	1	---	1	3	1	---	2	6	2	1	---	---	---	4	26	47	191	S-99
---	---	---	---	---	---	---	---	------	------	1	---	---	---	---	---	4	2	---	1	---	3	---	10	80	101	101	S-100
---	---	---	---	---	---	---	---	------	2	---	---	---	1	---	---	---	---	---	---	---	---	---	---	------	1	3	L-169
---	2	---	---	---	1	1	---	------	31	---	---	---	1	---	---	1	---	2	1	---	1	---	1	------	7	38	L-175
---	2	---	---	---	---	1	---	1	28	---	---	---	1	---	---	---	---	3	---	---	---	---	1	------	5	33	L-190
---	---	2	---	---	1	---	---	------	12	---	---	---	1	---	---	---	1	2	---	---	---	---	---	4	8	20	L-195
---	2	---	---	---	1	---	---	------	12	---	---	---	1	---	---	---	---	---	---	---	---	---	1	7	9	21	L-199
---	1	---	---	---	1	1	---	------	13	---	---	---	1	---	---	---	---	2	---	---	---	1	1	5	10	23	L-200
---	1	2	---	---	---	---	---	2	13	---	---	---	1	---	---	---	1	2	---	---	1	1	---	4	10	23	L-201
8	32	64	16	---	70	19	---	458	1,302	5	---	5	22	5	3	33	20	33	9	---	13	9	49	544	750	2,052	
53	180	466	140	71	660	463	---	2,596	9,416	103	---	62	122	80	102	228	169	304	76	52	106	71	314	4,047	5,836	15,252	

III Labor & Employment—Table 17—Non-fatal accidents by occupations and causes — shipping mines — loss of 7 days or more

Occupation	Underground							On surface											
	Fall of roof and slides	Haulage	Electricity	Explosives	Gas explosions	Other causes	Total	Machinery	Railroad cars	Mine cars and trucks	Falls and slides	Electricity	Handling tools	Fall of person	Falling object	Power drills, etc.	Other causes	Total	Grand total
Airdox man	12	2		7		15	36												36
Band picker															1			1	1
Buggy operator	1	5				4	10												10
Belt man	2	1				10	13										1	1	14
Blacksmith																	1	1	1
Brattice man	1					4	5										1	1	6
Cager		1				5	6												6
Carpenter																	3	3	3
Car rider									2									2	2
Clean up man		2				3	5												5
Clod man	1						1												1
Coupler						1	1		1								1	2	3
Driller	27	6	2			29	64									1	1	2	66
Driver		5				1	6										3	3	9
Electrician			2			5	7					1				1	2	4	11
Fireman									1					1			3	5	5
Foreman	10	2		1		13	26		1								2	3	29
Generator attendant						1	1												1
Ground man								1									3	4	4
Laborer	8	11	2			29	50	6	2					5			30	43	93
Loading machine operator	9	1	1			16	27												27
Loading machine helper	8	2	2			8	20												20
Machine runner	21	1	1			17	40												40
Machine helper	8	2				7	17												17
Machinist								1										1	1
Mechanic						4	4						1	2			3	6	10
Mine engineer		1					1										1	1	2
Mine examiner		2		1			3												3
Miner						4	4												4
Motor man	2	15				12	29										1	1	30
Oiler						1	1	1	1					1			2	5	6
Pump man						2	2	1									1	2	4
Recovery man	1					10	11												11

Repair man	1	3				14	18	1				1			1		7	10	28
Rock Picker						1	1												1
Rock duster						3	3												3
Roof bolter	3	1				2	6												6
Safety man		1					1												1
Shot firer	1			1			2										1	1	3
Shooter helper											1							1	1
Asst. field superintendent																	1	1	1
Shovel operator																	1	1	1
Shuttle car operator	11	5				3	19												19
Supply man						1	1										1	1	2
Timber man	11	5				21	37												37
Tipple man									1					2			5	8	8
Top man																	2	2	2
Track layer	3	5				12	20												20
Trip rider		18				2	20												20
Truck driver										1		1					7	9	9
Welder						3	3							2			10	12	15
Wire man		1	1			3	5												5
Yard man																	1	1	1
Washer operator																	2	2	2
Total	141	98	11	10		266	526	11	9	1	1	3	1	13	2	2	97	140	666

III LABOR & EMPLOYMENT—TABLE 18—FATAL ACCIDENTS BY OCCUPATION AND CAUSES, 1954

Occupation	Underground								In shaft				On surface				
	Fall of roof and slides	Gas explosion	Haulage	Electricity	Explosives	Machinery	Other causes	Total	Falling down shaft	Cage	Other causes	Total	Machinery	Railroad cars	Other causes	Total	Grand total
Airdox shooter	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
Coal sampler	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	1
Cutting machine helper	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
Driller	2	---	---	---	---	---	---	2	---	---	---	---	1	---	1	2	4
Electrician foreman	---	---	1	---	---	---	---	1	---	---	---	---	---	---	---	---	1
Examiner	---	---	1	---	---	---	---	1	1	---	---	1	---	---	---	---	2
Joy loader operator	2	---	---	---	---	---	---	2	---	---	---	---	---	---	---	---	2
Joy helper	1	---	---	---	---	---	---	1	---	---	---	---	---	---	---	---	1
Loading machine operator	1	---	1	---	---	---	---	2	---	---	---	---	---	---	---	---	2
Loading machine helper	1	---	---	---	---	1	---	2	1	---	---	1	---	---	---	---	3
Mine owner	---	---	1	---	---	---	---	1	---	---	---	---	---	---	---	---	1
Motorman	---	---	1	---	---	---	---	1	---	---	---	---	---	---	---	---	1
Repairman	---	---	1	---	---	---	---	1	1	---	---	1	---	---	---	---	2
Shotfirer	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1
Total	9	---	6	---	---	1	---	16	3	---	---	3	1	1	2	4	23

III LABOR & EMPLOYMENT—TABLE 19—CAUSES OF FATAL ACCIDENTS BY YEARS—1882-1954

Year	Total number killed	Underground							In shaft				On surface			
		Fall of roof and slides	Gas explosions	Haulage	Electricity	Explosives	Other causes	Total	Falling down shaft	Cage	Other causes	Total	Machinery	Railway cars	Other causes	Total
1882	40	26	-----	-----	-----	5	9	40	-----	-----	-----	-----	-----	-----	-----	-----
1883	134	40	12	2	-----	2	78	134	-----	-----	-----	-----	-----	-----	-----	-----
1884	46	29	4	-----	-----	6	7	46	-----	-----	-----	-----	-----	-----	-----	-----
1885	39	20	-----	-----	-----	-----	19	39	-----	-----	-----	-----	-----	-----	-----	-----
1886	52	32	-----	5	-----	10	-----	47	1	-----	4	5	-----	-----	-----	-----
1887	41	28	-----	-----	-----	-----	13	41	-----	-----	-----	-----	-----	-----	-----	-----
1888	54	33	-----	6	-----	9	-----	48	4	2	-----	6	-----	-----	-----	-----
1889	42	26	-----	5	-----	3	1	35	2	4	1	7	-----	-----	-----	-----
1890	52	36	5	3	-----	4	-----	48	-----	4	-----	4	-----	-----	-----	-----
1891	58	33	4	2	-----	11	1	51	1	4	2	7	-----	-----	-----	-----
1892	56	28	3	6	-----	4	3	44	8	4	-----	12	-----	-----	-----	-----
1893	68	48	2	2	-----	6	2	60	3	4	1	8	-----	-----	-----	-----
1894	70	43	-----	6	-----	8	-----	57	5	8	-----	13	-----	-----	-----	-----
1895	75	38	5	6	-----	12	2	63	5	4	1	10	1	1	-----	2
1896	77	41	2	9	-----	9	2	63	6	5	-----	11	1	1	1	3
1897	69	46	2	1	-----	11	-----	60	6	-----	1	7	1	1	-----	2
1898	75	43	7	3	-----	11	2	66	4	2	-----	6	1	1	1	3
1899	84	51	5	6	-----	6	6	74	4	5	-----	9	-----	1	-----	1
1900	94	51	1	11	-----	20	-----	83	1	4	2	7	2	2	-----	4
1901	99	57	1	14	-----	20	3	95	1	1	-----	2	-----	-----	2	2
1902	99	55	-----	15	-----	17	1	88	7	2	-----	9	-----	-----	2	2

III LABOR & EMPLOYMENT—TABLE 19—Concluded

Year	Total number killed	Underground							In shaft				On surface			
		Fall of roof and slides	Gas explosions	Haulage	Electricity	Explosives	Other causes	Total	Falling down shaft	Cage	Other causes	Total	Machinery	Railway cars	Other causes	Total
1903	156	77	8	18	1	41	2	147	2	6	-----	8	-----	-----	1	1
1904	157	65	-----	21	1	44	3	134	10	4	-----	14	6	2	1	9
1905	199	80	59	11	1	32	3	186	5	6	1	12	-----	1	-----	1
1906	155	84	2	22	-----	22	1	131	9	5	1	15	3	4	2	9
1907	165	84	4	29	1	25	2	145	6	8	-----	14	-----	4	2	6
1908	183	91	7	35	1	29	1	164	3	1	3	7	4	8	-----	12
1909	213	84	44	30	2	29	1	190	5	4	1	10	3	8	2	13
1910	406	65	20	23	3	17	258	386	3	6	-----	9	3	5	3	18
1911	157	80	8	40	1	10	4	143	5	2	2	9	-----	2	3	1
1912	180	98	3	38	3	13	12	167	6	3	-----	9	-----	2	2	5
1913	175	81	10	50	6	10	5	162	5	4	1	10	-----	2	1	4
1914	159	83	6	40	6	6	7	148	2	1	-----	3	-----	4	4	3
1915	180	57	68	27	2	9	12	175	1	-----	2	3	-----	2	-----	8
1916	165	80	12	43	4	13	1	153	4	-----	-----	4	2	6	-----	2
1917	207	77	19	67	7	12	3	185	-----	4	1	5	5	9	3	18
1918	259	100	27	70	13	20	4	234	8	8	2	18	-----	4	3	7
1919	208	93	31	51	7	12	1	195	4	4	2	10	-----	2	1	7
1920	181	91	7	41	14	9	5	167	8	2	-----	10	1	2	1	3
1921	222	112	6	54	9	20	8	209	2	4	-----	6	1	4	2	4
1922	159	71	15	29	8	17	7	147	2	1	3	6	-----	5	1	7
1923	161	82	2	40	6	13	6	149	3	1	1	5	-----	4	3	6
1924	184	76	40	37	5	10	8	176	2	-----	2	4	2	2	-----	7
1925	183	89	5	46	12	11	9	172	1	2	-----	3	3	3	2	4
1926	165	85	13	39	5	7	4	153	7	1	1	9	1	1	1	8
1927	106	44	17	18	5	5	8	97	3	1	-----	4	2	2	1	3
1928	139	72	23	21	2	6	5	129	1	1	-----	2	1	4	3	5
1929	109	52	8	24	5	6	5	100	1	2	-----	3	2	2	2	6
1930	112	72	4	20	3	2	5	106	-----	1	-----	1	1	2	2	5
1931	90	54	2	15	6	2	5	84	-----	4	-----	4	-----	1	1	2
1932	114	33	54	10	-----	4	4	105	-----	-----	-----	-----	-----	4	5	9
1933	71	45	1	12	3	3	3	67	3	-----	-----	3	-----	1	-----	1
1934	86	48	-----	18	5	2	5	78	-----	-----	-----	-----	3	-----	5	8
1935	82	34	1	17	3	3	15	73	2	1	-----	3	1	1	4	6
1936	93	54	-----	12	1	2	16	85	-----	-----	-----	-----	2	-----	6	8
1937	83	45	2	17	2	-----	9	75	-----	-----	-----	-----	2	-----	5	7
1938	85	41	5	16	1	5	6	74	1	-----	-----	1	1	4	5	10
1939	80	47	-----	20	4	1	3	75	-----	-----	-----	1	1	1	2	4
1940	84	45	1	17	2	1	9	75	-----	1	-----	1	1	2	4	7
1941	92	45	11	13	4	8	7	88	1	-----	-----	1	2	1	-----	3
1942	94	47	-----	19	2	3	9	80	-----	-----	-----	-----	-----	-----	14	14
1943	97	47	1	27	2	5	3	85	1	-----	1	2	2	3	5	10
1944	87	57	-----	19	4	2	1	83	-----	-----	1	-----	3	-----	-----	3
1945	75	40	-----	15	3	5	-----	63	2	-----	1	3	5	2	2	9
1946	61	31	-----	16	-----	2	7	56	2	-----	-----	2	-----	1	2	3
1947	204	30	141	18	2	1	-----	192	1	-----	-----	1	2	4	5	11
1948	68	40	-----	14	1	1	2	58	1	1	1	3	2	-----	5	7
1949	38	30	-----	-----	-----	-----	4	34	-----	-----	-----	-----	-----	2	2	4
1950	45	24	-----	11	2	1	2	40	-----	-----	-----	-----	1	1	3	5
1951	154	19	119	5	-----	1	3	147	-----	-----	-----	-----	1	2	4	7
1952	31	15	-----	8	2	-----	1	26	-----	-----	-----	-----	-----	1	4	5
1953	28	16	-----	6	-----	-----	1	23	-----	-----	-----	-----	-----	3	2	5
1954	23	9	-----	6	-----	-----	1	16	3	-----	-----	3	1	1	2	4

NOTE: In Table 24, on page 68 of this report, in the 1882-1954 Compilation, may be found the information usually shown as Table 20 of the Annual Coal Report; i.e., tons of coal mined, number employed, number killed and injured, and ratios per 1,000 employed and per 1,000,000 tons mined 1882-1954 inclusive.

III LABOR & EMPLOYMENT—TABLE 21—NON-FATAL ACCIDENTS BY COUNTIES AND MONTHS—1954

Name of operator	Number injured	Number not returned	Days lost by men returned		Loss of 7 days but less than 30 days			Loss of 30 days or more			Month in which accident occured	
			Total	Average	Number injured	Days lost		Number injured	Days lost		Month	Number injured
						Total	Average		Total	Average		
BUREAU COUNTY Shipping Mines												
Midland Electric Coal Corp., #1	2	1	47	47				1	47	47	March	1
											December	1
Total	2	1	47	47				1	47	47		2
CHRISTIAN COUNTY Shipping Mines												
Peabody Coal Co., #8	38		2,813	74	14	214	15	24	2,599	108	January	12
Peabody Coal Co., #10	60		2,653	44	32	432	14	28	2,221	79	February	10
Peabody Coal Co., #17	30		943	31	18	275	15	12	668	56	March	15
											April	8
											May	7
											June	9
											July	8
											August	10
											September	11
											October	12
											November	15
											December	11
Total	128		6,409	50	64	921	14	64	5,488	83		128
CLINTON COUNTY Shipping Mines												
Breese Coal Co., Inc	11	1	435	43	7	86	12	3	349	116	January	2
											March	2
											June	2
											July	1
											September	2
											October	2
Total	11	1	435	43	7	86	12	3	349	116		11

CLINTON COUNTY Local Mines												
Citizens Coal Co.	8		198	25	5	78	16	3	120	40	January	1
											April	1
											August	2
											September	1
											October	2
											December	1
Total	8		198	25	5	78	16	3	120	40		8
DOUGLAS COUNTY Shipping Mines												
Bell & Zoller Coal Co.	2		28	14	2	28	14				October	1
											December	1
Total	2		28	14	2	28	14					2
FRANKLIN COUNTY Shipping Mines												
Chicago, Wilmington & Franklin Coal Co., #1	21		777	37	11	154	14	10	623	62	January February	14 5
Chicago, Wilmington & Franklin Coal Co., #2	24		1,180	49	13	206	16	11	974	89	March April	6 2
Old Ben Coal Corp., #9	21	3	547	30	10	138	14	8	409	51	May	4
Old Ben Coal Corp., #14	9	2	100	14	6	69	11	1	31	31	June	3
Old Ben Coal Corp., #22	16	3	660	51	7	86	12	6	574	96	July	3
											August	9
											September	7
											October	14
											November	9
											December	15
Total	91	8	3,264	39	47	653	14	36	2,611	73		91
FULTON COUNTY Shipping Mines												
Fairview Collieries Corp.	2	2									January	4
Key Coal Co.	4		43	11	4	43	11				February	5
Little Sister Coal Corp.	1		18	18	1	18	18				March	5
Morgan Mines, Inc.	3		138	46	2	34	17	1	104	104	April	1
Pschirrer Coal Co., #3	2		32	16	2	32	16				May	1
Truax-Traer Coal Co.	4		36	9	4	36	9				June	2
The United Electric Coal Cos., #17	8		296	37	4	46	11	4	250	62	July	3
The United Electric Coal Cos., #9	5		111	22	4	60	15	1	51	51	August	2
											September	1
											October	2
											December	3
Total	29	2	674	25	21	269	13	6	405	68		29

III LABOR & EMPLOYMENT—TABLE 21—Continued

Name of operator	Number injured	Number not returned	Days lost by men returned		Loss of 7 days but less than 30 days			Loss of 30 days or more			Month in which accident occured	
			Total	Average	Number injured	Days lost		Number injured	Days lost		Month	Number injured
						Total	Average		Total	Average		
FULTON COUNTY Local Mines												
Putt Creek Coal Co., Inc.	2	1	8	8	1	8	8				January	1
											December	1
Total	2	1	8	8	1	8	8					2
GALLATIN COUNTY Local Mines												
B. & W. Coal Co.	3		90	30	2	24	12	1	66	66	January	1
Sun Valley Coal Co., #1	2		161	80	1	15	15	1	146	146	February	1
											May	1
											October	1
											December	1
Total	5		251	50	3	39	13	2	212	106		5
GREENE COUNTY Local Mines												
Birch Creek Coal Co.	1		9	9	1	9	9				June	1
HENRY COUNTY Shipping Mines												
Alpha Coal Co.	1		53	53				1	53	53	October	1
HENRY COUNTY Local Mines												
Jim Mine, Inc.	1	1									December	1

JACKSON COUNTY Shipping Mines											
Elk Coal Co.	3	-----	48	13	3	48	13	-----	-----	-----	February	2
Truax-Traer Coal Co., "Drift #1"	5	-----	271	54	-----	-----	-----	5	271	54	March	2
Truax-Traer Coal Co., "Strip #1"	8	-----	341	43	5	62	12	3	279	93	April	1
											July	2
											August	1
											September	2
											October	3
											November	1
											December	2
Total	16	-----	660	41	8	110	14	8	550	69		16
JEFFERSON COUNTY Shipping Mines											
Chicago, Wilmington & Franklin Coal Co., #3	17	-----	525	31	10	158	16	7	367	52	January	1
											March	2
											April	2
											May	2
											June	2
											July	3
											August	3
											October	1
											November	1
Total	17	-----	525	31	10	158	16	7	367	52		17
KANKAKEE COUNTY Shipping Mines											
Northern Illinois Coal Corp., #14	9	-----	306	34	5	59	12	4	247	62	*December, 1953	1
											January	3
											March	1
											July	3
											October	1
Total	9	-----	306	34	5	59	12	4	247	62		9
KNOX COUNTY Shipping Mines											
Midland Electric Coal Corp., #3	6	-----	157	26	5	90	18	1	67	67	January	3
Midland Electric Coal Corp., #2	3	-----	188	63	1	8	8	2	180	90	June	2
Stonefort Corp., "Little John"	4	1	85	28	2	31	15	1	54	54	July	2
											August	2
											September	1
											December	3
Total	13	1	430	36	8	129	16	4	301	75		13

III LABOR & EMPLOYMENT—TABLE 21—Continued

Name of operator	Number injured	Number not returned	Days lost by men returned		Loss of 7 days but less than 30 days			Loss of 30 days or more			Month in which accident occured	
			Total	Average	Number injured	Days lost: Total	Days lost: Average	Number injured	Days lost: Total	Days lost: Average	Month	Number injured
KNOX COUNTY Local Mines												
Knoxville Mining Co., #2	7	----------	283	40	4	58	14	3	225	75	February	2
											March	1
											May	1
											August	1
											September	1
											October	1
Total	7	----------	283	40	4	58	14	3	225	75		7
LOGAN COUNTY Local Mines												
Deer Creek Coal Co	5	2	240	80	----------	----------	----------	3	240	80	February	1
											March	2
											December	2
Total	5	2	240	80	----------	----------	----------	3	240	80		5
MACOUPIN COUNTY Shipping Mines												
Little Dog Coal Co	13	1	742	57	3	34	11	9	708	79	January	6
Superior Coal Co., #2	4	1	119	40	1	28	28	2	91	45	February	5
Superior Coal Co., #3	6	2	317	79	1	25	25	3	292	97	March	6
Superior Coal Co., #4	18	2	999	62	1	21	21	15	978	65	April	5
Virden Mining Corp	9	2	317	45	4	62	15	3	255	85	May	2
											June	3
											July	7
											August	3
											September	2
											October	4
											November	2
											December	5
Total	50	8	2,494	59	10	170	17	32	2,324	73		50

MADISON COUNTY Shipping Mines												
Livingston & Mt. Olive Coal Co., #1	14		329	23	11	189	17	3	140	47	January	1
Lumaghi Coal Co., #4	13	3	575	57	6	103	17	4	472	118	February	3
Mt. Olive & Staunton Coal Co., #2	17		744	44	9	131	15	8	613	77	March	8
											May	5
											June	4
											July	2
											August	2
											September	2
											October	4
											November	7
											December	6
Total	44	3	1,648	40	26	423	16	15	1,225	82		44
MARION COUNTY Shipping Mines												
Marion County Coal Mining Corp., Inc.	10		297	23	4	51	13	6	246	41	January	1
											February	2
											March	2
											October	1
											November	3
											December	1
Total	10		297	23	4	51	13	6	246	41		10
MENARD COUNTY Local Mines												
Lloyd Mine	1		30	30				1	30	30	July	1
Wilcox-Verna Coal Co.	1		14	14	1	14	14				October	1
Total	2		44	22	1	14	14	1	30	30		2
MONTGOMERY COUNTY Shipping Mines												
Freeman Coal Mining Corp., "Crown Mine"	29		817	28	18	258	14	11	559	51	January	3
											February	2
											March	4
											April	1
											May	3
											June	6
											July	1
											September	2
											October	3
											November	2
											December	2
Total	29		817	28	18	258	14	11	559	51		29

III LABOR & EMPLOYMENT—TABLE 21—Continued

Name of operator	Number injured	Number not returned	Days lost by men returned		Loss of 7 days but less than 30 days			Loss of 30 days or more			Month in which accident occured	
			Total	Average	Number injured	Days lost Total	Days lost Average	Number injured	Days lost Total	Days lost Average	Month	Number injured
PEORIA COUNTY Local Mines												
Treasure Coal Co.	3		31	10	3	31	10				January	1
Big Bear Coal Co.	1		30	30				1	30	30	April	1
Lee Coal Co.	1		75	75				1	75	75	October	2
Pioneer Collieries Co.	2		31	16	2	31	16				November	4
J. & J. Coal Co.	1		124	124				1	124	124		
Total	8		291	36	5	62	12	3	229	76		8
PERRY COUNTY Shipping Mines												
Cutler Coal Co., Inc.	9	1	215	27	5	62	12	3	153	51	January	5
Peabody Coal Co., #14	7		947	134	2	28	14	5	919	184	February	9
Truax-Traer Coal Co.	2		69	34	1	10	10	1	59	59	March	1
Union Colliery Co.	12		514	43	9	151	17	3	363	121	April	1
The United Electric Coal Cos., #11	5		165	33	3	44	15	2	121	60	May	1
											June	3
											July	3
											August	4
											September	2
											October	2
											November	1
											December	3
Total	35	1	1,910	55	20	295	15	14	1,615	115		35
RANDOLPH COUNTY Shipping Mines												
Midwest Utilities Coal Corp.	9	2	357	51	3	36	12	4	321	80	January	1
Moffat Coal Co.	5		230	46	1	11	11	4	219	55	March	3
Southwestern Illinois Coal Corp.	1		46	46				1	46	46	April	1
											May	6
											June	1

											September October	2 1
Total	15	2	633	49	4	47	12	9	586	65		15
Randolph County Local Mines												
West Side Coal Co., #1	2	------	28	14	2	28	14	------	------	------	September	2
St. Clair County Shipping Mines												
Mid-Continent Coal Corp	1	------	17	17	1	17	17	------	------	------	January	3
Perry Coal Co	9	------	167	19	7	102	15	2	65	33	February	2
St. Louis & O'Fallon Coal Co., #2	5	------	179	36	2	30	15	3	149	50	March	2
											April	2
											May	1
											September	3
											December	2
Total	15	------	363	24	10	149	15	5	214	43		15
St. Clair County Local Mines												
Belle Valley Coal Co	1	------	14	14	1	14	14	------	------	------	January	1
Midwest-Radiant Corp., #1	3	------	157	52	1	27	27	2	130	65	March	1
											June	1
											October	1
Total	4	------	171	42	2	41	20	2	130	65		4
Saline County Shipping Mines												
Peabody Coal Co., #40	9	------	733	81	2	22	11	7	711	102	January	12
Peabody Coal Co., #43	21	------	1,454	69	11	163	16	10	1,291	129	February	6
Peabody Coal Co., 47 P. P. Dryer	1	------	26	26	1	26	26	------	------	------	March	4
Sahara Coal Co., Inc., #5	12	1	365	33	7	119	17	4	246	60	April	1
Sahara Coal Co., Inc., #6	2	------	100	50	------	------	------	2	100	50	May	5
Sahara Coal Co., Inc., #7	1	------	12	12	1	12	12	------	------	------	June	5
Sahara Coal Co., Inc., #16	4	------	161	40	1	11	11	3	150	50	July	2
Saxton Coal Corp., #2	1	------	20	20	1	20	20	------	------	------	August	2
											September	5
											October	4
											November	4
											December	1
Total	51	1	2,871	57	24	373	16	26	2,498	96		51
Saline County Local Mines												
Pioneer Mining Co	2	------	190	95	------	------	------	2	190	95	February	2

III LABOR & EMPLOYMENT—TABLE 21—Concluded

Name of operator	Number injured	Number not returned	Days lost by men returned		Loss of 7 days but less than 30 days			Loss of 30 days or more			Month in which accident occured	
			Total	Average	Number injured	Days lost		Number injured	Days lost		Month	Number injured
						Total	Average		Total	Average		
SANGAMON COUNTY Local Mines												
Wenneborg Coal Co.	6	1	59	12	5	59	12	-----	-----	-----	January	7
Eddy Coal Co.	5	-----	71	14	5	71	14	-----	-----	-----	February	1
Cantrall Coal Co.	1	-----	27	27	1	27	27	-----	-----	-----	March	2
Farrand Coal Co.	2	-----	70	35	1	28	28	1	42	42	April	1
											September	2
											November	1
Total	14	1	227	17	12	185	15	1	42	42		14
SCHUYLER COUNTY Local Mines												
D. & D. Coal Co.	1	-----	18	18	1	18	18	-----	-----	-----	January	1
Green Coal Co.	1	-----	7	7	1	7	7	-----	-----	-----	March	1
Total	2	-----	25	13	2	25	13	-----	-----	-----		2
TAZEWELL COUNTY Local Mines												
Lakeside Coal Co.	1	1	-----	-----	-----	-----	-----	-----	-----	-----	September	1
VERMILION COUNTY Shipping Mines												
Fairview Collieries Corp.	1	-----	50	50	-----	-----	-----	1	50	50	March	1
V-Day Coal Co.	2	-----	54	27	1	22	22	1	32	32	July	1
											December	1
Total	3	-----	104	35	1	22	22	2	82	41		3
WASHINGTON COUNTY Shipping Mines												
Bois Coal Co.	4	-----	88	22	3	26	9	1	62	62	September	1
											October	2
											November	1
Total	4	-----	88	22	3	26	9	1	62	62		4

WASHINGTON COUNTY Local Mines												
Venedy Coal Co., Inc.	2		55	27	1	21	21	1	34	34	August	2
WILL COUNTY Shipping Mines												
Wilmington Coal Mining Corp.	1	1									April	1
WILLIAMSON COUNTY Shipping Mines												
Bell & Zoller Coal Co., #2	15	3	706	59	4	51	13	8	655	82	January	18
Bell & Zoller Coal Co., #3	20	1	821	43	6	99	16	13	722	56	February	12
Blue Bird Coal Co., #7	4		183	46	2	27	13	2	156	78	March	7
Blue Bird Coal Co., #8	8		618	77	1	27	27	7	591	84	April	4
Carmac Coal Co.	10	1	312	35	7	114	16	2	198	99	May	4
C. & C. Coal Co.	6	1	119	24	4	73	18	1	46	46	June	3
Delta Collieries Corp.	2		67	33				2	67	33	July	5
Forsyth Carterville Coal Co.	1		200	200				1	200	200	August	8
Freeman Coal Mining Corp., #3	12		329	27	9	137	15	3	192	64	September	10
Freeman Coal Mining Corp., #4	4		209	52	1	8	8	3	201	67	October	10
Harrisburg Coal Co.	1		8	8	1	8	8				November	4
Morgan Mines, Inc.	2		58	29	1	28	28	1	30	30	December	5
New Black Diamond Coal Co.	2		87	43				2	87	43		
Stonefort Corp.	3		32	11	3	32	11					
Total	90	6	3,749	45	39	604	15	45	3,145	70		90
WILLIAMSON COUNTY Local Mines												
Moore & Sons Coal Co.	1		51	51				1	51	51	August	2
Blue Bell Coal Co., #1	1		63	63				1	63	63	October	1
Carterville Blue Blaze Coal Co.	1		21	21	1	21	21				November	1
Parton Coal Co., #2	1		14	14	1	14	14					
Total	4		149	37	2	35	17	2	114	57		4
Total shipping mines	666	35	27,805	44	331	4,831	15	300	22,974	77		
Total local mines	70	6	2,169	34	41	603	15	23	1,566	68		
Total all mines	736	41	29,974	43	372	5,434	15	323	24,540	76		

III LABOR & EMPLOYMENT—TABLE 22—FATAL ACCIDENTS—1954

Date of injury	Date of death	Name	Age	Occupation	Residence	Name of operator of mine	Number or letter of mine	Married	Single	Widow	Children	Dependents	Cause of death
FRANKLIN COUNTY													
Jan. 25	Jan. 25	Thomas Hodgson	45	Driller	Thompsonville	Old Ben Coal Corp	#9	x	--	x	--	--	Fall of face.
July 8	July 8	William Hunt	55	Loading machine helper	West Frankfort	Chicago, Wilmington & Franklin Coal Co.	Orient #2	x	--	x	--	--	Crushed against rib by loading machine.
FULTON COUNTY													
Mar. 22	Mar. 22	Francis Earl Cape	64	Shot firer	Bryant	Morgan Mines, Inc	Morgan Mines	x	--	x	--	--	Explosives.
Mar. 22	Mar. 22	Ronald Bordner Miles	33	Driller	Lewistown	Morgan Mines, Inc	Morgan Mines	x	--	x	1	--	Explosives.
JACKSON COUNTY													
Mar. 20	Mar. 20	Solomon Morgan	66	Driller	Dowell	Truax-Traer Coal Co., "Strip #1"	"Burning Star"	x	--	x	--	--	Clothing caught by drill bar crushing his head and chest.
MADISON COUNTY													
*Dec. 3, 1953	Jan. 28, 1954	James Marerio	53	Machine helper	Collinsville	Lumaghi Coal Co	#4	x	--	x	4	--	Roof fall.
July 29	July 29	Stanley Rice	53	Loading machine helper	Collinsville	Lumaghi Coal Co	#4	--	x	--	--	--	Roof fall.
MONTGOMERY COUNTY													
Feb. 8	Feb. 8	Charles Joseph Takacs	40	Electrician foreman	Litchfield	Freeman Coal Mining Corp	"Crown"	x	--	x	2	--	Motor blew up and together with a tram, accidently fell down mine shaft striking cage upon which man was riding to the top.

Sept. 17	Sept. 17	Robert W. Heiple	42	Motorman	Edinburg	Freeman Coal Mining Corp.	"Crown"	x	--	x	3	--	Fell off of haulage motor while throwing a switch.
SALINE COUNTY													
Jan. 14	Jan. 14	Carl Stokich	54	Joy operator	Harrisburg	Sahara Coal Co., Inc.	#5	x	--	x	3	--	Roof fall.
Feb. 24	Feb. 24	George W. Veatch	65	Examiner	Harrisburg	Sahara Coal Co., Inc.	#7	x	--	x	--	--	Run over by motor.
Mar. 4	Mar. 7	James C. Endsley	45	Coal sampler	Harrisburg	Blue Bird Coal Co., "Washer"	#6	x	--	x	3	--	Caught between two railroad cars.
Oct. 15	Oct. 15	Claude Sanders	48	Driller	Eldorado	Sahara Coal Co., Inc.	#16	x	--	x	--	--	Fall of rib.
Nov. 18	Nov. 18	Clyde Essary	41	Mule driver	Broughton	Eagle Creek Coal Co.	#1	x	--	x	3	--	Pinned underneath a loaded car of coal.
Dec. 16	Dec. 16	Bobby Gene Dempsey	26	Joy operator	Carrier Mills	Sahara Coal Co., Inc.	#5	x	--	x	2	--	Roof fall.
WILLIAMSON COUNTY													
Jan. 20	Jan. 20	Melvin V. Smith	42	Joy helper	Christopher	Bell & Zoller Coal Co.	#3	x	--	x	--	--	Fall of rib.
Mar. 18	Mar. 18	Melvin Robinson	47	Loading machine operator	Herrin	Bell & Zoller Coal Co.	#3	x	--	x	--	--	Crushed against rib by loading machine.
Apr. 12	Apr. 12	Ralph Spiller	50	Repairman	Marion	Freeman Coal Mining Corp.	#3	x	--	x	1	--	Crushed between the coal and buggy.
May 3	May 3	John Lamatina	49	Loading machine operator	Freeman spur	Freeman Coal Mining Corp.	#3	x	--	x	--	--	Fall of face.
June 15	June 15	John Bione	48	Examiner	Herrin	Freeman Coal Mining Corp.	#3	x	--	x	1	--	Counterweight on cage, caught on third bunton from bottom, pulling up platform that men were standing on.
June 15	June 15	Joseph A. Lombardo	51	Loading machine helper	Herrin	Freeman Coal Mining Corp.	#3	x	--	x	1	--	Counterweight on cage, caught on third bunton from bottom, pulling platform up that men were standing on.
June 15	June 15	Ebert Mann	58	Repairman	Herrin	Freeman Coal Mining Corp.	#3	x	--	x	--	--	Counterweight on cage, caught on third bunton from bottom, pulling up platform that men were standing on.
Nov. 10	Nov. 10	Jacob Sanders	58	Shooter	Johnston City	Bell & Zoller Coal Co.	#3	x	--	x	--	--	Roof fall.

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* Accident happened December 3, 1953; death occured from accident, January 28 1954.

ACCIDENTS

III LABOR & EMPLOYMENT—TABLE 23—COMPARATIVE STATISTICS OF FATAL AND NON-FATAL ACCIDENTS FOR THE PERIOD 1928 TO 1954 INCLUSIVE, NON-FATAL ACCIDENTS OF 7 DAYS OR MORE LOST TIME.

Year	Accidents		Tons mined to one—		Employees to one—	
	Fatal	Non-fatal	Fatal	Non-fatal	Fatal	Non-fatal
1928	139	5,785	404,396	9,392	471	11
1929	109	6,621	560,805	9,232	538	9
1930	112	5,106	482,456	10,580	500	11
1931	90	3,800	501,696	11,854	595	14
1932	114	2,643	299,205	12,884	552	19
1933	71	3,018	539,720	12,697	683	16
1934	86	3,133	485,164	13,318	576	16
1935	82	3,147	548,942	14,304	599	16
1936	93	3,165	553,504	16,263	528	16
1937	83	2,887	655,810	18,854	561	16
1938	84	2,240	504,612	18,923	516	19
1939	80	1,887	595,343	25,240	511	22
1940	83	2,091	624,603	20,020	447	18
1941	92	2,096	601,801	26,414	406	18
1942	94	2,546	710,066	25,784	319	14
1943	97	3,017	756,131	24,317	339	11
1944	87	3,578	889,655	21,632	369	9
1945	75	3,350	979,292	21,924	414	9
1946	61	2,908	1,045,362	20,552	532	11
1947	204	2,618	334,927	26,098	160	12
1948	68	2,270	973,041	29,148	484	14
1949	38	1,658	1,253,431	28,727	827	19
1950	45	1,629	1,272,940	35,164	690	19
1951	154	1,494	356,297	36,727	190	20
1952	31	1,122	1,475,890	40,778	768	21
1953	28	920	1,641,647	49,963	677	21
1954	23	736	1,816,337	57,622	725	23

III LABOR & EMPLOYMENT—TABLE 24—WORKING TIME

	Average days worked			
	1953	1954	Increase (+) Decrease (—)	Per cent of Increase (+) Decrease (—)
Shipping mines	153	152	—1	— .7
Local mines	124	118	—6	—4.8
Total	138	135	—3	—2.2

III LABOR & EMPLOYMENT—TABLE 25—EMPLOYEES

	Number employed		Gain (+) Loss (—)	Per cent of Gain (+) Loss (—)
	1953	1954		
Shipping mines	17,201	15,252	—1,949	—11.3
Local mines	1,744	1,413	—331	—19.0
Total	18,945	16,665	—2,280	—12.0

SAFETY RECORD—COAL MINES, UNDERGROUND

	Operator	County	Tons produced since last fatal accident to December 31, 1954
1.	Old Ben Coal Corp., #14	Franklin	4,365,744
2.	Peabody Coal Co., #10	Christian	3,561,003
3.	Mid-Continent Coal Corp	St. Clair	3,070,082
4.	Union Colliery Co	Perry	2,929,688
5.	Chicago, Wilmington & Franklin Coal Co., #3	Jefferson	2,892,389
6.	Chicago, Wilmington & Franklin Coal Co., #1	Franklin	2,844,057
7.	Citizens Coal Co	Clinton	2,544,653
8.	Peabody Coal Co., #17	Christian	2,439,487
9.	Peabody Coal Co., #43	Saline	2,351,182
10.	Carmac Coal Co	Williamson	2,078,927
11.	Marion County Mining Corp	Marion	2,065,191
12.	Blue Bird Coal Co., #7	Williamson	1,802,696
13.	Truax-Traer Coal Co., "Burning Star #1," "Drift"	Jackson	1,752,466
14.	Mount Olive & Staunton Coal Co., #2	Madison	1,506,198
15.	Freeman Coal Mining Corp., #4	Williamson	1,331,387
16.	Breese Coal Co	Clinton	1,316,837
17.	Bell & Zoller Coal Co., "Buckhorn #2"	Williamson	1,299,373
18.	Superior Coal Co., #4	Macoupin	1,280,702
19.	Old Ben Coal Corp., #9	Franklin	1,273,247
20.	Little Dog Coal Co	Macoupin	1,245,078
21.	The Livingston Mt. Olive Coal Co., #1	Madison	1,191,480
22.	Bugos-White Coal Co	Henry	1,148,483
23.	Bell & Zoller Coal Co	Douglas	1,147,028
24.	Old Ben Coal Corp., #22	Franklin	1,053,781
25.	Blue Bird Coal Co., #8	Williamson	968,782
26.	Belle Valley Coal Co	St. Clair	918,810
27.	Perry Coal Co	St. Clair	810,998
28.	Midwest Utilities Corp	Randolph	750,413
29.	Deer Creek Coal Co	Logan	690,277
30.	Peabody Coal Co., #40	Saline	673,869
31.	Cantrall Coal Co	Sangamon	638,507
32.	Eddy Coal Co	Sangamon	611,704
33.	Chicago, Wilmington & Franklin Coal Co., #2	Franklin	569,730
34.	Knoxville Mining Co., #2	Knox	559,507
35.	Freeman Coal Mining Corp., "Crown"	Montgomery	503,968

SAFETY RECORD—COAL MINES, STRIP

	Operator	County	Tons produced since last fatal accident to December 31, 1954
1.	Northern Illinois Coal Corp., #14	Kankakee	17,698,460
2.	Southwestern Illinois Coal Corp	Randolph	10,031,094
3.	Midwest-Radiant Corp., #1	St. Clair	9,217,665
4.	United Electric Coal Cos., #17	Fulton	5,470,230
5.	Delta Collieries Corp	Williamson	5,293,042
6.	Midland Electric Coal Corp., "Middlegrove #2," "Strip"	Knox	5,091,661
7.	United Electric Coal Cos., #9	Fulton	4,988,204
8.	United Electric Coal Cos., #11	Perry	4,842,426
9.	Truax-Traer Coal Co., "Red Ember"	Fulton	4,642,511
10.	Seminole Coal Corp., #17	St. Clair	4,224,299
11.	Fairview Collieries Corp., "Harmattan"	Vermilion	3,962,873
12.	Midland Electric Coal Corp., #1	Bureau	3,679,942
13.	Wilmington Coal Mining Corp	Will	2,602,408
14.	Morgan Mines, Inc	Williamson	2,522,895
15.	Key Coal Co	Fulton	2,472,922
16.	Little Sister Coal Corp	Fulton	2,445,900
17.	Fairview Collieries Corp., "Flamingo"	Fulton	2,112,018
18.	Midland Electric Coal Corp., "Rapatee #1," "Strip"	Knox	1,562,400
19.	Forsyth-Williamson Coal Co	Williamson	1,424,812
20.	Sahara Coal Co., Inc., #6	Saline	1,309,533
21.	Truax-Traer Coal Co., #2	Perry	1,138,670
22.	Truax-Traer Coal Co., "Pyramid"	Perry	1,038,052

IV *Mechanization*

IV MECHANIZATION—TABLE 26—MACHINE MINING FOR THE PERIOD 1928 TO 1954 INCLUSIVE

Year	Entire output			Part of output			Total			Per cent of	
	Mines	Machines	Tons	Mines	Machines	Tons	Mines	Machines	Tons	Mines	Tons
1928	84	1,245	25,134,248	55	813	19,506,953	139	2,058	44,641,201	67.5	82.2
1929	92	1,324	31,883,147	47	665	18,476,517	139	1,989	50,359,664	69.5	85.2
1930	90	1,100	26,629,055	37	506	13,082,958	127	1,606	32,712,013	68.6	62.9
1931	85	1,103	28,190,836	36	282	5,425,234	111	1,385	33,616,070	66.5	78.0
1932	81	989	19,599,599	21	155	2,986,486	102	1,144	22,586,085	53.0	71.9
1933	79	905	25,237,315	15	109	2,015,606	94	1,014	27,252,921	59.1	77.0
1934	87	929	27,231,330	14	113	2,411,683	101	1,042	29,733,013	58.7	76.9
1935	88	903	28,985,205	15	107	2,144,948	103	1,010	31,130,153	56.5	75.2
1936	93	981	32,700,420	15	81	3,127,236	108	1,062	35,827,656	61.4	78.8
1937	90	884	33,816,349	13	43	740,231	103	927	34,031,392	61.3	64.9
1938	92	835	26,628,552	7	23	310,720	99	958	26,939,302	61.7	63.6
1939	92	746	30,312,078	5	9	285,292	97	755	30,597,370	66.4	71.2
1940	124	901	34,680,322	1	2	42,870	125	903	34,723,192	90.0	74.0
1941	84	957	37,951,424	4	22	197,712	88	979	38,149,136	86.0	68.9
1942	116	818	46,428,214	4	5	71,643	120	823	46,499,857	85.0	70.7
1943	100	656	51,090,624	------	------	------------	100	658	51,090,624	21.0	72.2
1944	189	812	56,178,300	------	------	------------	189	812	56,178,300	49.7	72.5
1945	184	780	53,999,655	------	------	------------	184	780	53,999,655	48.4	73.5
1946	201	798	46,660,727	1	2	54,189	202	800	46,714,916	54.8	73.4
1947	184	700	48,791,054	------	------	------------	184	700	48,791,054	52.1	71.4
1948	174	697	46,373,080	12	25	282,844	186	722	46,655,924	54.3	70.5
1949	176	694	32,890,158	8	17	103,326	184	711	32,993,484	54.6	75.1
1950	170	656	37,692,319	5	15	74,453	175	671	37,766,772	50.0	65.9
1951	167	604	36,016,095	4	11	65,163	171	615	36,081,258	56.6	65.8
1952	151	508	28,788,980	------	------	------------	151	508	28,788,980	57.4	62.9
1953	127	388	29,129,556	1	1	1,950	128	389	29,131,506	55.2	63.4
1954	111	334	25,204,139	3	5	14,945	114	339	25,219,084	55.3	60.4

IV MECHANIZATION—TABLE 27—NUMBER OF MINES OPERATED AND TOTAL TONS MINED; STRIP MINES AND OUTPUT; NUMBER OF MINES USING MACHINES, NUMBER USED AND TONNAGE UNDERCUT; NUMBER OF MINES USING MOTORS FOR UNDERGROUND HAULAGE, NUMBER OF MOTORS USED AND TONS HAULED; ALSO THE PERCENTAGE OF EACH CLASS—SHIPPING MINES BY YEARS—1907-1954

Year	Mines operated	Total tons mined	Mined in strip mines				Machine mining					Motor hauling				
			Number of—		Per cent of—		Number of—			Per cent of—		Number of—			Per cent of—	
			Mines	Tons mined	Mines	Tons mined	Mines using	Machines used	Tons undercut	Mines	Tons undercut	Mines using	Motors used	Tons hauled	Mines using	Tons hauled
1907	411	46,436,839	--	----------	----	----	101	1,105	14,490,454	24.6	31.2	75	129	16,542,575	18.3	35.6
1908	407	47,809,730	--	----------	----	----	105	1,106	15,210,443	25.7	31.8	88	185	19,024,665	21.6	39.8
1909	384	47,958,562	--	----------	----	----	107	1,246	16,407,692	27.9	34.2	96	210	21,892,462	25.0	45.6
1910	390	47,225,021	--	----------	----	----	114	1,289	18,176,254	29.2	38.5	106	229	23,204,480	27.2	49.1
1911	387	48,758,657	1	45,153	.3	.1	126	1,430	19,998,259	32.6	41.0	137	316	29,310,173	35.5	60.2
1912	380	56,096,695	5	53,762	1.3	.1	129	1,581	25,550,059	34.4	45.5	165	381	37,958,050	44.0	67.7
1913	371	60,515,416	4	117,790	1.1	.2	140	1,689	30,228,520	38.1	50.0	185	466	46,194,737	50.4	76.5
1914	340	59,279,182	4	181,520	1.2	.3	141	1,828	31,446,823	41.2	53.1	191	540	47,485,729	56.8	80.2
1915	280	56,172,566	2	195,486	.7	.3	131	1,686	34,057,426	47.1	60.8	172	604	47,239,554	62.8	84.4
1916	284	62,283,236	3	344,372	1.1	.6	139	1,817	39,312,376	49.9	63.5	176	648	53,140,005	62.6	85.8
1917	324	77,412,054	5	419,475	1.5	.6	151	1,920	47,232,880	47.3	61.3	200	774	67,196,786	62.7	87.3
1918	370	88,306,228	4	498,347	1.1	.6	174	2,054	50,027,291	47.5	57.0	240	960	77,662,619	65.6	88.4
1919	373	73,751,721	3	393,894	.8	.5	199	2,124	42,993,172	53.8	58.6	259	1,144	66,686,930	70.0	90.9
1920	373	72,409,610	3	367,009	.8	.5	208	2,330	45,130,629	56.2	62.6	276	1,228	66,441,191	74.6	92.2
1921	389	78,339,082	3	437,007	.8	.6	235	2,760	50,243,470	60.9	64.5	280	1,406	71,329,567	72.5	91.6
1922	352	61,406,093	5	533,923	1.4	.9	205	2,762	41,168,621	59.1	69.3	232	1,364	55,028,080	70.0	90.4
1923	374	73,410,837	6	895,608	1.6	1.2	241	3,049	51,057,868	65.5	70.4	285	1,547	70,863,815	77.4	97.7
1924	329	70,324,363	11	1,184,288	3.3	1.7	215	3,033	50,064,304	67.7	72.5	259	1,565	65,900,698	82.7	95.3
1925	255	10,001,299	18	4,722,597	7.1	4.7	165	2,540	74,826,359	69.6	78.5	195	1,360	92,185,121	82.3	96.7
1926	244	67,836,441	16	3,482,611	6.6	5.1	149	2,259	50,736,684	65.4	78.8	182	1,288	61,486,775	88.0	95.5
1927	241	44,926,433	15	2,756,410	6.2	6.1	151	2,397	32,681,281	66.8	77.5	180	1,250	40,144,446	80.0	95.3
1928	206	54,284,184	14	4,113,008	6.8	7.6	139	2,158	41,099,267	72.4	82.7	158	1,182	49,007,549	82.3	97.7
1929	200	59,075,995	17	5,250,501	8.5	8.9	139	1,989	45,907,547	76.0	85.3	156	1,281	52,426,315	85.2	97.4
1930	185	51,996,608	15	6,220,336	8.1	12.0	129	1,606	40,015,407	75.9	87.2	133	1,201	41,181,378	78.2	87.2
1931	167	43,073,058	16	6,548,798	9.6	15.2	111	1,385	32,587,944	73.5	89.2	123	1,205	35,459,159	81.4	97.1
1932	162	31,402,399	17	6,628,228	10.5	21.1	102	1,144	22,165,199	70.3	89.5	124	1,117	24,357,088	85.5	98.3
1933	159	35,390,677	20	5,599,006	12.6	15.8	94	1,014	26,972,132	67.6	90.5	117	1,044	29,459,870	84.2	98.9
1934	172	38,655,527	26	6,008,218	15.1	15.5	101	1,042	29,395,102	58.7	90.0	124	1,156	32,378,082	72.1	83.8
1935	182	41,410,414	28	7,481,349	15.4	18.1	103	1,011	30,857,109	60.9	90.0	122	1,137	33,686,091	79.2	98.3
1936	176	47,285,587	30	8,873,229	17.0	18.8	108	1,062	35,827,656	74.0	93.3	123	1,240	37,950,347	84.4	98.8
1937	168	48,062,076	30	11,176,074	17.8	23.3	103	927	34,031,392	61.3	92.3	116	1,288	36,341,172	84.1	98.5
1938	149	38,442,859	25	10,058,999	16.8	26.2	99	958	26,939,302	66.4	94.9	106	1,251	27,988,198	85.5	72.0
1939	146	42,994,107	26	11,295,547	17.8	26.3	92	740	30,312,078	63.0	95.6	106	1,230	31,318,349	88.3	74.0
1940	139	46,071,806	27	12,024,635	19.5	26.2	124	903	34,734,192	90.0	74.0	124	1,112	36,972,431	89.1	82.0
1941	143	51,033,319	30	13,367,089	20.4	26.1	83	623	35,944,467	56.4	70.5	95	954	38,012,446	74.2	74.5
1942	141	61,124,628	28	15,937,681	19.8	24.3	91	632	42,571,922	64.5	69.8	107	1,240	43,064,306	76.0	70.0
1943	140	68,971,621	26	15,484,712	18.0	22.0	100	658	51,090,624	70.0	76.3	105	1,335	51,918,418	74.4	75.2
1944	157	73,958,923	31	17,108,528	20.2	23.1	102	684	54,412,942	64.5	73.3	106	1,312	55,060,045	67.5	74.4
1945	159	70,322,301	37	16,203,763	23.2	22.0	102	638	52,234,080	64.1	74.5	102	1,262	53,278,465	64.1	76.4
1946	160	60,932,785	36	14,302,739	22.5	23.4	106	798	46,660,727	66.3	76.5	109	1,337	46,215,166	68.7	75.8
1947	160	64,612,627	38	17,821,339	22.0	27.4	103	637	46,770,716	64.4	72.4	98	1,271	42,983,109	61.3	66.5
1948	160	62,494,412	45	16,758,306	28.1	26.8	100	577	44,784,161	62.5	71.6	89	1,118	42,270,669	55.6	67.6
1949	157	44,772,617	45	12,835,980	28.7	28.6	103	570	31,579,018	65.6	70.5	94	1,107	31,419,416	59.9	70.2
1950	149	54,356,918	39	16,469,126	26.2	30.3	98	543	36,337,125	65.8	66.9	99	1,153	38,468,443	66.4	70.7
1951	136	52,595,098	33	17,289,932	24.3	32.9	94	496	35,078,767	69.1	66.7	95	1,073	32,885,513	69.9	62.5
1952	111	43,274,400	27	15,340,989	24.3	35.5	77	391	27,824,311	69.4	64.2	77	883	26,271,031	69.4	60.7
1953	97	43,847,321	29	15,395,734	29.9	35.3	63	299	28,312,383	64.9	64.6	59	651	23,803,952	60.8	54.3
1954	87	40,017,802	28	15,388,078	32.2	38.5	54	240	24,606,444	62.1	61.5	49	609	19,362,624	56.3	48.4

IV MECHANIZATION—TABLE 28—METHOD OF LOADING IN SHIPPING MINES—1954

Name of operator	Total tons produced	Mobile loading machines			Hand loading		
		Number in use	Machine shifts used	Tons loaded	Men working	Days worked	Tons loaded
Alpha Coal Co.	23,821	3	852	23,821			
Bell & Zoller Coal Co., #2	858,224	5		858,224			
Bell & Zoller Coal Co., #3	786,132	7		786,132			
Bell & Zoller Coal Co., "Murdock"	250,380	2	840	250,380			
Big 5 Coal Co.	8,616	1	104	7,216	2	100	1,400
Blue Bird Coal Co., #7	149,781	2	796	149,781			
Blue Bird Coal Co., #8	228,354	3	974	228,354			
Bois Coal Co., "Kuhn"	10,537				25	91	10,537
Breese Coal Co., Inc.	55,857	2	304	55,857			
C. & C. Coal Co.	18,466				18	161	18,466
Carmac Coal Co.	348,795	5	1,322	348,795			
Chicago, Wilmington & Franklin Coal Co., #1	720,283	5	2,004	720,283			
Chicago, Wilmington & Franklin Coal Co., #2	974,758	7	2,115	974,758			
Chicago, Wilmington & Franklin Coal Co., #3	1,579,296	14	4,834	1,579,296			
Co-op Coal Co., #1	1,331				3	43	1,331
Cutler Coal Co., Inc.	37,320				40	103	37,320
Elk Coal Co.	32,804	2	177	32,804			
Freeburn Mining Co., "Freeman #3"	830,045	5	2,230	830,045			
Freeman Coal Mining Corp., #4	530,578	4	1,328	530,578			
Freeman Coal Mining Corp., "Crown"	1,600,716	8	2,839	1,600,716			
Golden Rule Coal Co.	1,005				12	9	1,005
Harrisburg Coal Co.	37,961	1	215	37,961			
Joliana Coal Mining Co.	38,333	2	200	38,333			
Little Coal Co.	3,304				7	64	3,304
Little Dog Coal Co.	246,976	3		246,976			
The Livingston-Mt. Olive Coal Co., #1	94,976	5	8,260	94,976			
Lumaghi Coal Co., #4	490,299	4	837	490,299			
Marion County Coal Mining Corp.	69,382	4	420	69,382			
Mid-Continent Coal Corp.	541,040	2		541,040			
Midwest Utilities Coal Corp.	542,299	3	1,048	542,299			
Moffat Coal Co.	295,412	5		295,412			
Mt. Olive & Staunton Coal Co., #2	403,850	10	1,570	403,850			
New Black Crystal Coal Co.	41,159				18	171	41,159
New Black Diamond Coal Co.	37,655	1	188	37,655			
New West Side Coal Co., Inc.	11,572				9	82	11,572
Old Ben Coal Corp., #9	1,433,521	14	4,556	1,433,521			
Old Ben Coal Corp., #14	554,906	17	4,735	554,906			
Old Ben Coal Corp., #15	14,234	4	28	14,234			
Old Ben Coal Corp., #22	624,073	7	1,940	624,073			
Peabody Coal Co., #8	777,444	16	1,088	777,444			
Peabody Coal Co., #10	2,645,923	17	3,281	2,645,923			
Peabody Coal Co., #14	67,850	5	304	67,850			
Peabody Coal Co., #17	1,980,718	7	2,688	1,980,718			
Peabody Coal Co., #40	115,654	4	296	115,654			
Peabody Coal Co., #43	614,392	9	723	614,392			
Perry Coal Co.	791,529	4	1,240	791,529			
Pschirrer Coal Co., #3	28,907	6	642	28,907			
Pure Coal Co.	33,237	1	192	33,237			
St. Louis & O'Fallon Coal Co., #2	143,617	3	324	143,617			
Sahara Coal Co., Inc., #5	340,989	3	1,158	340,989			
Sahara Coal Co., Inc., #7	49,279	4	272	49,279			
Sahara Coal Co., Inc., #16	443,388	4	1,552	443,388			
Service Coal Co., #6	3,122				4	58	3,122
Strobel Coal Co.	1,332	1	28	1,332			
Superior Coal Co., #4	178,906	10		178,906			
Truax-Traer Coal Co., "Drift #1"	413,363	4	764	413,363			
Union Colliery Co.	1,299,103	6		1,299,103			
V-Day Coal Co.	42,849	2	296	42,849			
Virden Mining Corp.	77,260				67	119	77,260
Wilkins Coal Co.	52,811	1	222	52,811			
Total	24,629,724	264	59,786	24,423,248	205	1,001	206,476

IV MECHANIZATION—TABLE 29—MECHANICAL LOADING IN SHIPPING MINES FOR TWENTY-FOUR YEARS—1931-1954

Year	Entire output			Part of output			Total			Per cent of—	
	Mines	Machines	Tons loaded	Mines	Machines	Tons loaded	Mines	Machines	Tons loaded	Mines	Tons loaded
1931	36	1,504	15,138,330	38	916	7,307,452	74	2,420	22,445,782	49.3	52.1
1932	41	1,702	10,899,555	27	578	4,513,101	68	2,280	15,412,656	42.0	49.1
1933	32	1,313	13,344,573	19	439	4,421,643	51	1,752	17,766,216	32.1	50.2
1934	32	1,364	15,107,934	16	257	3,492,240	48	1,621	18,600,174	27.9	48.1
1935	33	1,322	16,649,144	21	304	4,002,563	54	1,626	20,651,707	29.7	49.9
1936	37	1,210	18,540,558	27	363	6,664,612	64	1,573	25,205,170	36.4	53.3
1937	42	1,127	21,192,003	27	329	7,182,359	69	1,456	28,374,362	41.1	59.0
1938	45	935	19,360,718	20	222	4,089,756	65	1,157	23,450,474	43.6	61.0
1939	47	611	20,023,681	19	245	6,631,893	66	856	26,655,664	45.2	62.0
1940	50	631	26,413,496	14	130	4,437,590	64	761	30,851,086	46.0	71.0
1941	58	561	29,308,412	18	127	4,359,361	76	688	33,667,773	51.7	65.9
1942	66	631	37,350,137	12	112	4,554,664	78	743	41,904,801	55.3	68.5
1943	56	598	45,422,135	15	96	3,174,933	71	694	48,597,068	48.2	69.0
1944	60	577	45,529,829	14	102	5,790,101	74	679	50,719,930	45.2	65.5
1945	59	562	43,152,237	15	102	6,116,885	74	664	49,269,122	46.7	70.6
1946	64	566	38,527,365	11	86	4,089,527	75	652	42,616,892	46.8	70.0
1947	65	584	42,946,063	9	48	1,377,780	78	632	44,323,843	47.4	67.0
1948	70	559	42,469,316	3	28	729,222	73	587	43,198,538	45.6	68.0
1949	63	542	29,263,382	3	15	1,217,785	66	557	30,481,167	42.0	68.2
1950	70	531	37,855,197	3	6	32,595	73	537	37,887,792	49.0	69.7
1951	68	489	33,531.058	3	6	611,126	71	495	34,142,184	52.2	64.9
1952	69	365	26,549,584	8	13	611,541	67	378	27,161,125	60.4	62.7
1953	50	305	27,451,029	4	12	560,052	54	317	28,011,081	55.6	63.8
1954	48	263	24,416,023	1	1	7,216	49	264	24,423,248	56.3	61.0

IV MECHANIZATION—TABLE 30—METHOD OF LOADING IN SHIPPING MINES FOR TWENTY-FOUR YEARS—1931-1954

Year	Loading machines			By hand		Strip mines		Per cent of output loaded		
	Mines	Machines	Tons loaded	Mines	Tons loaded	Mines	Tons loaded	By machines	By hand	Strip mines
1931	74	2,420	22,445,782	114	14,078,400	16	6,548,798	52.1	32.7	15.2
1932	68	2,280	15,412,656	104	9,361,515	17	6,628,228	49.1	29.8	21.1
1933	51	1,752	17,766,216	88	12,025,455	20	5,599,006	50.2	34.0	15.8
1934	48	1,621	18,600,174	98	14,047,135	26	6,008,218	48.1	36.3	15.6
1935	54	1,626	20,651,707	100	12,277,358	28	7,481,349	49.9	32.1	18.0
1936	64	1,573	25,205,170	82	13,207,189	30	8,873,229	53.3	28.0	18.7
1937	69	1,456	28,374,362	69	8,511,640	30	11,176,074	59.0	17.7	23.3
1938	65	1,157	23,450,474	59	4,933,386	25	10,058,999	61.0	12.8	26.2
1939	66	856	26,655,664	54	5,042,896	26	11,295,547	62.0	11.7	26.3
1940	64	761	30,851,086	59	3,156,987	27	12,024,635	66.0	6.8	27.2
1941	76	688	33,667,773	59	3,998,459	30	13,367,089	65.9	7.8	26.1
1942	78	743	41,904,801	32	3,308,666	28	15,937,681	68.5	5.0	24.2
1943	71	694	48,597,068	47	4,889,841	26	15,484,712	71.4	7.0	21.6
1944	74	679	50,719,930	52	6,130,465	31	17,108,528	68.5	8.3	23.1
1945	74	664	49,269,122	62	4,849,416	37	16,203,763	70.6	6.8	22.0
1946	75	652	42,616,892	47	3,831,940	36	14,302,739	70.2	6.3	23.5
1947	76	600	44,323,843	49	3,191,727	38	14,821,339	67.8	4.8	27.4
1948	73	587	43,198,538	44	2,350,818	45	16,758,306	69.0	4.0	27.0
1949	66	557	30,481,167	46	1,455,470	45	12,835,980	68.0	3.0	29.0
1950	73	537	37,887,792	40	1,575,188	39	16,469,126	69.7	2.9	30.3
1951	71	495	34,142,184	32	1,162,982	33	17,289,932	64.9	2.2	32.9
1952	67	378	27,161,125	17	772,286	27	15,340,989	62.7	1.8	35.5
1953	54	317	28,011,081	14	340,506	29	15,495,734	63.9	0.8	35.3
1954	49	264	24,423,248	11	206,476	28	15,388,078	61.0	0.5	38.5

REPORT OF DIVISION INSPECTION

1954

The report of services rendered by the State Inspectors of Coal Mines is summarized as follows:

Days inspection coal mines	3,155½
Other classified service	1,398½
Miscellaneous service	897½
Total days	5,451½

Average days for inspector	272½
Average days inspection of mines	158
Ave. days other classified service	70
Ave. days miscellaneous service	45
Number of inspections made	1.959
Average inspections for each inspector	98

Summary of specific work report for state mine inspectors—1954

District	Inspecting mines						Other classified duties—days worked							Miscellaneous services, days worked	Total days
	Shipping		Local		Total										
	Number inspections	Days worked	Number inspections	Days worked	Number inspections	Days worked	Investigating accidents	Testing scales	Investigating complaints	Office work	Traveling	Oil well plugging	Explosive magazines		
1st	33	29	82	53½	115	82½	--------	--------	2	152	8	--------	13	24½	282
2nd	--------	--------	151	147½	151	147½	--------	--------	--------	54	--------	--------	8	83½	293
3rd	12	12½	79	87½	91	100	1	--------	--------	142	1	--------	12½	37½	294
4th	116	106	139	112	255	218	4	--------	--------	39½	1	--------	5½	31	299
5th	35	35	76	75	111	110	--------	--------	1	31	1	--------	10½	43½	197
6th	--------	--------	74	114	74	114	--------	--------	--------	28	--------	--------	12	39½	193½
7th	36	183½	--------	--------	36	183½	--------	--------	--------	64½	5	--------	2½	50½	306
8th	41	171	--------	--------	41	171	--------	--------	1	6	1	--------	4	35	218
9th	39	88½	28	27½	67	116	3	--------	2	3	2	--------	8	116	250
10th	56	190	--------	--------	56	190	4	--------	--------	84	--------	--------	7	19	304
11th	28	36	115	120	143	156	2	--------	5	11	--------	--------	13	61	248
12th	65	198	11	17	76	215	--------	--------	--------	25	--------	--------	1	17	258
15th	115	146½	50	49	165	195½	--------	--------	--------	55	--------	--------	1	15½	267
16th	32	173	--------	--------	32	173	1	--------	--------	68	17	--------	--------	54	313
17th	33	193	--------	--------	33	193	--------	--------	9	71	4	--------	1	20	298
18th	53	151	37	41	90	192	3½	--------	--------	17	--------	--------	3½	29	245
19th	32	60	66	81½	98	141½	--------	--------	--------	84	2	--------	1½	80	309
20th	26	39	77	88	103	127	--------	--------	--------	119	--------	--------	3	45	294
21st	98	195½	2	2	100	197½	6	--------	--------	37	3	--------	2	49½	295
22nd	40	31	82	101½	122	132½	3	--------	--------	101	--------	--------	5	46½	288
Total	890	2,038½	1,069	1,117	1,959	3,155½	27½	--------	20	1,192	45	--------	114	897½	5,451½

ANALYTICAL LABORATORY

The Analytical Laboratory of the Department of Mines and Minerals is located at 413 East Main Street, West Frankfort, Illinois. The Laboratory was established in January of 1948, and temporarily located on the University of Illinois campus. In June 1952 the Laboratory was moved to more permanent quarters in Springfield, Illinois, where it remained until destroyed by fire on December 10, 1953.

In May this year the Laboratory was moved to West Frankfort, Illinois. The establishment of the Laboratory at West Frankfort, Illinois, was a geological move to give quicker laboratory service to State Mine Inspectors and Mine Operators. The West Frankfort area is the center of the largest coal producing field in the State of Illinois.

In establishing the Laboratory in January 1948, Illinois became the first State to operate a laboratory of this type in connection with its mining department. At the time of the establishment a study of the Federal Bureau of Mines laboratory was made and the Department Laboratory adopted methods of analysis and equipment similar to that used by the Federal Bureau of Mines. The Laboratory now has the very latest of modern laboratory equipment.

The purpose of the Laboratory is to analyze for explosive, noxious, and gaseous mixtures in the mining industry. The Laboratory also analyzes mine dust for the determination of the percentages of combustible and incombustible material; thus, helping the mining industry to control flame propagating characteristics of mine dust.

During the year 1954 there were 3,230 mine atmosphere samples analyzed, and 4,111 coal dust samples were analyzed. Of those analyzed only 12.6 per cent of mine atmosphere and 10.0 per cent of mine dust samples did not meet the analyses specified by the Illinois Coal Mining Law.

As of December 31, 1954, 25,992 mine atmosphere and 24,709 dust samples have been analyzed since the Laboratory was established.

The Laboratory personnel consists of ten employees:

George W. Sneddon, Supervisor, 317 North Gardner, West Frankfort, Ill.
John N. Mitchell, Lab. Technician II, Route 2, West Frankfort, Ill.
Ralph Conover, Lab. Technician II, Route 2, Thompsonville, Ill.
Earl Brookshire, Lab. Technician II, 222 Dobson Street, Carterville, Ill.
Zudora Hadfield, Lab. Technician II, 1104 E. St. Louis St., West Frankfort, Ill.
Eulah Rogers, Clerk-Steno II, 803 E. Browning St., Marion, Ill.
Mary Joe Smith, Clerk-Typist I, 1411 E. Oak Street, West Frankfort, Ill.
W. N. Felts, Lab. Helper, 1200 N. Monroe St., Johnston City, Ill.
Elsworth Shepherd, Lab. Helper, Route 2, Thompsonville, Ill.
Fred Mitchell, Lab. Helper, Route 2, West Frankfort, Ill.

Report of Miners' Examining Board

DATE AND PLACE OF MEETING, NUMBER OF CERTIFICATES ISSUED AND AMOUNT OF FEES COLLECTED

Date	Place of meeting	Number of certificates issued	Fees collected
January 4	Springfield	-----	-----
5	Canton	1	-----
6	Peoria	-----	-----
7	Taylorville	2	-----
8	Pana	1	-----
9	Benld	-----	-----
11	DuQuoin	2	$2.00
12	Benton	-----	-----
13	Eldorado	-----	-----
14	Herrin	3	-----
15	Christopher	-----	-----
16	Belleville	-----	-----
February 1	Springfield	1	2.00
2	Canton	-----	-----
3	Peoria	1	-----
4	Taylorville	8	2.00
5	Benld	4	-----
6	Belleville	1	-----
8	Sparta	-----	-----
9	DuQuoin	2	-----
10	Benton	2	-----
11	West Frankfort	4	-----
12	Herrin	4	2.00
13	Eldorado	1	-----
March 1	Springfield	-----	-----
2	Peoria	-----	-----
3	Pekin	-----	-----
4	Taylorville	3	-----
5	Pana	-----	-----
6	Benld	1	-----
8	DuQuoin	2	-----
9	Benton	-----	-----
10	Eldorado	4	4.00
11	Herrin	3	-----
12	Murphysboro	-----	-----
13	Belleville	2	-----
April 5	Springfield	-----	-----
6	Canton	-----	-----
7	Peoria	-----	-----
8	Danville	4	2.00
9	Taylorville	3	-----
10	Benld	3	-----
19	Belleville	-----	-----
20	DuQuoin	1	-----
21	Benton	-----	-----
22	Christopher	-----	-----
23	Herrin	2	-----
24	Eldorado	1	-----
May 3	Springfield	-----	-----
4	Galesburg	-----	-----
5	Peoria	-----	-----
6	Taylorville	-----	-----
7	Benld	1	-----
8	Belleville	-----	-----
10	DuQuoin	-----	-----
11	Benton	-----	-----
12	Eldorado	3	-----
13	West Frankfort	2	-----
14	Herrin	2	-----
15	Sparta	-----	-----
June 7	Springfield	4	-----
8	Peoria	-----	-----
9	LaSalle	-----	-----
10	Taylorville	2	-----
11	Pana	-----	-----
12	Benld	1	-----
14	Belleville	2	-----
15	DuQuoin	3	2.00
16	Benton	1	-----
17	Christopher	2	2.00
18	Herrin	-----	-----
19	Eldorado	1	-----

REPORT OF MINERS' EXAMINING BOARD

DATE AND PLACE OF MEETING, NUMBER OF CERTIFICATES ISSUED AND AMOUNT OF FEES COLLECTED—Concluded

Date	Place of meeting	Number of certificates issued	Fees collected
July 12	Springfield		
13	Canton		
14	Peoria		
15	Danville		
16	Taylorville		
17	Benld		
19	DuQuoin	1	
20	Benton		
21	Eldorado		
22	West Frankfort		
23	Herrin	2	
24	Belleville		
August 2	Springfield		
3	Galesburg		
4	Peoria		
5	Taylorville	1	
6	Benld		
7	Belleville		
9	Murphysboro		
10	DuQuoin	2	2.00
11	Christopher		
12	Benton	1	
13	Herrin	3	
14	Eldorado	2	2.00
September 13	Springfield	1	
14	Pekin		
15	Peoria		
16	Taylorville	2	
17	Pana	1	
18	Benld	2	4.00
20	Belleville		
21	DuQuoin		
22	Benton	1	
23	West Frankfort	1	
24	Herrin	2	
25	Eldorado	1	2.00
October 4	Springfield	1	
5	Peoria	1	
6	LaSalle		
7	Taylorville	1	
8	Benld		
9	Centralia	4	
11	Belleville	1	
12	Sparta	1	
13	Herrin		
14	Benton		
15	DuQuoin	2	
16	Eldorado	1	
November 15	Springfield	1	2.00
16	Canton		
17	Peoria		
18	Taylorville		
19	Benld		
20	Belleville	2	
22	DuQuoin	2	
23	Benton	1	
24	West Frankfort	2	
26	Murphysboro	1	
27	Eldorado	1	
29	Herrin	3	
December 6	Springfield		
7	Peoria		
8	Taylorville	1	
9	Pana		
10	Staunton	1	
11	Belleville	2	
13	DuQuoin		
14	Christopher		
15	Benton		
16	West Frankfort	1	
17	Herrin	1	
18	Eldorado	1	
	Total	145	$30.00

MISCELLANEOUS ACTIVITIES OF MINE RESCUE STATIONS

On January 31, 1954, the Benton Mine Rescue Station superintendent was called to the farm home of Walter Collins east of Benton at 12:20 A.M. by Dr. Donosky. Mr. Collins had suffered a heart attack and was lifeless when he arrived. The superintendent used an H. H. inhalator and gave artificial respiration immediately. He worked on Mr. Collins for one hour and fifteen minutes with no success.

On January 28, 1954, the Benld Mine Rescue Station superintendent was called to a tavern at Mt. Clare where a man had been gassed. He used an H. H. inhalator and gave artificial respiration.

On March 19, 1954, the Benton Mine Rescue Station superintendent was called to the home of John Davis, 1219 East Main Street, Benton, at 5:15 A.M. Mr. Davis had suffered a heart attack and was laboring for breath. The superintendent immediately used an H. H. inhalator for 35 minutes, at the end of which time Mr. Davis was pronounced dead by Dr. Donosky.

On May 1, 1954, the Mine Rescue Station at Benld received a call from the City of Gillespie. There was a fire at the Maple Street School in Gillespie and the use of gas masks was needed. The Superintendent took six M. S. A. gas masks to the scene of the fire, where gas masks were used by four of the firemen. The smoke was so thick it was impossible for the men to work without them. With the use of the gas masks, the firemen were able to enter the burning building without any trouble.

On June 17, 1954, the Eldorado Mine Rescue Station superintendent received a call from the Sheriff of Harrisburg, informing him that a Mr. James Floyd was trapped in a well about 45 feet down and that the well was located about two miles north of the City of Metropolis. The Sheriff asked the Mine Rescue Station superintendent to call the Sheriff of Metropolis and see if they needed any assistance in rescuing the man. The superintendent did so and was told by the Sheriff that he didn't know. The superintendent thought it best to take the inhalator and go to the well. When he arrived at the scene, they were putting Mr. Floyd in an ambulance and did not need the Rescue Team's inhalator as the Fire Department also answered the call and their inhalator was used.

On August 19, 1954, the Benton Mine Rescue Station superintendent was called to 500 South First Street, Benton, with an H. H. inhalator, to the home of Mr. George Flashman. The inhalator was used for thirty minutes and Mr. Flashman was breathing good when the superintendent returned to the Mine Rescue Station.

The Eldorado Mine Rescue Team was called to a fire at the Ford Garage at Eldorado. The use of gas masks was needed to bring the fire under control. Nobody was injured.

The Eldorado Mine Rescue Team was called to the Roy Cook farm at Eldorado where a drilling company had drilled into an abandoned mine. No one was injured.

SUMMARY OF ACTIVITIES OF MINE RESCUE STATIONS

	Belleville	Benld	Benton	DuQuoin	Eldorado	Herrin	Springfield	Total
Number of persons trained on 100% First Aid Program	32	43	89	18	42	13	5	242
Candidates for additional Training Certificates	16	----	7	6	1	18	----	48
Number of men trained as First Aid Instructors	----	----	1	----	----	----	----	1
Number of plants, schools, mines, etc., given 100% Training	----	----	----	1	----	----	----	1
Number of men given complete Mine Rescue Training	----	2	5	3	2	----	13	25
Number of men given modified Mine Rescue Course	2	----	6	3	1	----	11	23
Number of calls to mine on emergencies	----	----	----	----	----	----	----	----
Number of miscellaneous calls other than mines	----	2	3	----	3	----	----	8

TRAINING RECORD FOR ACCIDENT PREVENTION

1954

Date of training	Place of training	Name of mine where men are employed	No. men trained
Jan. 29 to Feb. 12	Benton	Freeman Coal Mining Corp., #3	55
Feb. 5 to Feb. 19	Pawnee	Peabody Coal Co., #10	75
Feb. 13 to Feb. 26	Johnston City	Freeman Coal Mining Corp., #3	72
Feb. 16 to Mar. 2	Johnston City	Freeman Coal Mining Corp., #3	26
Mar. 24 to Apr. 7	Johnston City	Freeman Coal Mining Corp., #4	62
Apr. 13 to Apr. 27	Johnston City	Freeman Coal Mining Corp., #4	42
Apr. 13 to Apr. 27	Pawnee	Peabody Coal Co., #10	15
Apr. 15 to Apr. 29	Pawnee	Peabody Coal Co., #10	47
Apr. 21 to May 5	Tovey	Peabody Coal Co., #8	42
Apr. 22 to May 6	Johnston City	Freeman Coal Mining Corp., #4	13
Apr. 23 to May 7	Pawnee	Peabody Coal Co., #10	19
Apr. 28 to May 12	Pawnee	Peabody Coal Co., #10	18
May 6 to May 20	Pawnee	Peabody Coal Co., #10	22
May 14 to May 28	Pawnee	Peabody Coal Co., #10	15
May 21 to June 4	Pawnee	Peabody Coal Co., #10	48
July 6 to July 19	Pana	Peabody Coal Co., #17	39
Aug. 5 to Aug. 19	Pana	Peabody Coal Co., #17	192
Aug. 10 to Aug. 24	Pana	Peabody Coal Co., #17	23
Aug. 16 to Aug. 30	Pana	Peabody Coal Co., #17	17
Aug. 19 to Sept. 2	Pana	Peabody Coal Co., #17	29
Sept. 7 to Sept. 21	Pana	Peabody Coal Co., #17	61
Sept. 9 to Sept. 23	Pana	Peabody Coal Co., #17	77
Sept. 16 to Sept. 30	Pana	Peabody Coal Co., #17	31
Sept. 16 to Sept. 30	Johnston City	Bell & Zoller Coal Co., "Buckhorn #2"	22
Oct. 6 to Oct. 20	Pana	Peabody Coal Co., #17	15
Oct. 15 to Oct. 29	Pana	Peabody Coal Co., #17	33
Oct. 21 to Nov. 4	Johnston City	Bell & Zoller Coal Co., "Zeigler #3"	22
Nov. 3 to Nov. 17	Pana	Peabody Coal Co., #17	18
Nov. 12 to Nov. 26	Pana	Peabody Coal Co., #17	20
Nov. 12 to Nov. 26	Sandoval	Chicago, Wilmington & Franklin Coal Co., #3	2
Nov. 19 to Dec. 3	Zeigler	Bell & Zoller Coal Co., "Zeigler #3"	31
Nov. 20 to Dec. 4	Mt. Olive	County and State Mine Inspectors	2
Nov. 20 to Dec. 4	Mt. Olive	Freeman Coal Mining Corp., "Crown"	1
Dec. 3 to Dec. 17	Herrin	Bell & Zoller Coal Co., "Zeigler #3"	23
Dec. 3 to Dec. 17	Pana	Peabody Coal Co., #17	3
Dec. 7 to Dec. 21	Springfield	State Employees	3
Dec. 7 to Dec. 21	Springfield	Eddy Coal Co.	10
Dec. 10 to Dec. 24	Zeigler	Bell & Zoller Coal Co., "Zeigler #3"	25
Dec. 10 to Dec. 24	Pana	Peabody Coal Co., #17	7
Dec. 14 to Dec. 30	Zeigler	Chicago, Wilmington & Franklin Coal Co., #3	1
Dec. 14 to Dec. 30	Zeigler	Bell & Zoller Coal Co., "Zeigler #3"	8
		Total	1,286

These Men Trained By: Federal Bureau of Mines Inspectors, R. W. Whittaker and T. Alvin Scully.
State Mine Inspectors, John J. Kotzman, Albert Morris, Theodore Plumlee, Edward Mallaburn and Ray McCluskey.
Superintendents of Mine Rescue Stations, at Springfield, William J. Williams, at Benton #2, Arch Ivy.

Metal Mines, Pits and Quarries

Limestone—1954

Name of operator	Location of plant		Production in tons	Number employed	Days worked	Explosives used		Accidents	
	Post office	County				Powder, pounds	Dynamite, pounds	Fatal	Non-fatal
Alpha Portland Cement Co	LaSalle	LaSalle	396,517	29	261		114,250		
Anna Quarries, Inc	Anna	Union	300,430	47	119		80,000		5
Black White Limestone Co	Quincy	Adams	177,973	40	250		140,000		5
The Casper Stolle Quarry & Contracting Co	East St. Louis	St. Clair	232,000	25	219		43,850		6
Chester Quarry Co	Chester	Randolph	73,133	15	200		55,000		
Columbia Quarry Co	Columbia	St. Clair	957,445	107	213		433,250		2
Columbia Quarry Co	Valmeyer	Monroe	267,703	100	244		113,050		1
East St. Louis Stone Co	Falling Springs	St. Clair	500,000	96	254	78,850	38,000		1
Hecker Quarry, Inc	New Athens	St. Clair	60,000	8	208		25,000		2
Illinois State Penitentiary	Menard	Randolph	8,541	160	160		4,000		
Iola Store & Material Co	Iola	Clay	43,364	9	300		20,000		
Lehigh Stone Co	Kankakee	Kankakee	1,100,000	73	244		300,000		3
Lincoln Stone Co	Joliet	Will	530,302	27	280		174,600		1
Marblehead Lime Co	Quincy	Adams	94,089	11	280		62,990		1
Medusa Portland Cement Co	Dixon	Lee	429,011	16	305		115,032		
Menke Stone & Lime Co	Quincy	Adams	69,549	22	300		60,000		
National Stone Co	Joliet	Will	457,680	33	231		118,750		18
Okerson Quarry Co	Cave-In-Rock	Hardin	43,500	7	255		30,000		
Quality Lime Co	Mode	Shelby	21,117	6	121		11,600		
Quality Lime Co	Marshall	Clark	63,018	10	193		34,800		1
Rigsby and Barnard	Cave-In-Rock	Hardin	142,018	15	252		100,000		
T. W. Shaw	Morris	Kendall	100,000	6	148		40,800		1
Solvay Process Division	Prairie du Rocher	Randolph	808,870	111	254		350,819		
Al Stotz	Prairie du Rocher	Randolph	73,000	13	250		30,000		
Sam A. Swinford	Ava	Jackson	139,979	14	208		84,575		3
Earl D. Werner	Princeville	Peoria	162,207	13	300		60,000		
Total			7,251,446	1,013	6,049	78,850	2,640,366		50

SAND AND GRAVEL—1954

Name of operator	Location of plant		Production in tons	Number employed	Days worked	Explosives used		Accidents	
	Post office	County				Powder, pounds	Dynamite, pounds	Fatal	Non-fatal
Bureau County Highways	Princeton	Bureau	52,796						
Consumers Co.	Crystal Lake	McHenry	581,817	30	201				17
H. H. Halliday Sand Co.	Cairo	Alexander	110,000	16	306				5
John Keller & Sons	Eureka	Woodford	855	3	4				
The Lincoln Sand & Gravel Co.	Lincoln	Logan	352,793	23	260				3
McGrath Sand and Gravel Co.	Bloomington	McLean	255,220	14	306			1	1
McGrath Sand and Gravel Co.	Chillicothe	Peoria	822,215	39	306				1
McGrath Sand and Gravel Co.	Forreston	Ogle	482,330	26	306			1	2
McGrath Sand and Gravel Co.	Mackinaw	Tazewell	209,500	8	306				1
McGrath Sand and Gravel Co.	Pekin	Tazewell	434,540	28	306				7
Total			3,302,066	187	2,301			2	37

SHALE AND CLAY—1954

Name of operator	Location of plant		Production in tons	Number employed	Days worked	Explosives used		Accidents	
	Post office	County				Powder, pounds	Dynamite, pounds	Fatal	Non-fatal
Alpha Portland Cement Co.	LaSalle	LaSalle	39,270	29	261		114,250		
Hill Brick Co.	East St. Louis	St. Clair	48,708	3	250		9,000		
Hydraulic Press Brick Co.	East St. Louis	St. Clair	69,053	4	305		9,600		
The Illinois Clay Products Co.	Morris	Grundy	162,139	150	297		64,950		10
Poston Brick & Concrete Products Co.	Springfield	Sangamon	42,513	2	294		3,250		
Springfield Clay Products Co.	Petersburg	Menard	13,654	1	236		700		
Springfield Clay Products Co.	Springfield	Sangamon	24,763	1	236		2,900		
Western Brick Co.	Danville	Vermilion	140,000	10	300		6,000		
Total			540,100	200	2,179		210,650		10

SUMMARY—LIMESTONE—1954

County	Number of—		Output in tons	Number employed	Days worked	Explosives used		Accidents	
	Operators	Plants				Powder pounds	Dynamite pounds	Fatal	Non-fatal
Adams	3	3	341,611	73	830		262,990		6
Clark	1	1	63,018	10	193		34,800		1
Clay	1	1	43,364	9	300		20,000		
Hardin	2	2	185,518	22	507		130,000		
Jackson	1	1	139,979	14	208		84,575		3
Kankakee	1	1	1,100,000	73	244		300,000		3
Kendall	1	1	100,000	6	148		40,800		1
LaSalle	1	1	396,517	29	261		114,250		
Lee	1	1	429,011	16	305		115,032		
Monroe	1	1	267,703	100	244		113,050		1
Peoria	1	1	162,207	13	300		60,000		
Randolph	4	4	963,544	299	864		439,819		
St. Clair	4	4	1,749,445	236	894	78,850	540,100		11
Shelby	1	1	21,117	6	121		11,600		
Union	1	1	300,430	47	119		80,000		5
Will	2	2	987,982	60	511		293,350		19
Total	26	26	7,251,446	1,013	6,049	78,850	2,640,366		50

SUMMARY—SAND AND GRAVEL—1954

County	Number of—		Output in tons	Number employed	Days worked	Explosives used		Accidents	
	Operators	Plants				Powder pounds	Dynamite pounds	Fatal	Non-fatal
Alexander	1	1	110,000	16	306				5
Bureau	1	1	52,796						
Logan	1	1	352,793	23	260				3
McHenry	1	1	581,817	30	201				17
McLean	1	1	255,220	14	306			1	1
Ogle	1	1	482,330	26	306			1	2
Peoria	1	1	822,215	39	306				1
Tazewell	1	2	644,040	36	612				8
Woodford	1	1	855	3	4				
Total	9	10	3,302,066	187	2,301			2	37

SUMMARY—SHALE AND CLAY—1954

County	Number of—		Output in tons	Number employed	Days worked	Explosives used		Accidents	
	Operators	Plants				Powder pounds	Dynamite pounds	Fatal	Non-fatal
Grundy	1	1	162,139	150	297		64,950		10
LaSalle	1	1	39,270	29	261		114,250		
Menard	1	1	13,654	1	236		700		
St. Clair	2	2	117,761	7	555		18,600		
Sangamon	2	2	67,276	3	530		6,150		
Vermilion	1	1	140,000	10	300		6,000		
Total	8	8	540,100	200	2,179		210,650		10

REPORT OF METAL MINES OPERATIONS—1954

NAME, LOCATION OF MINE, DEPTH OF SHAFT, USE OF PRODUCT, METHOD OF HOISTING AND MINING

Name of operator	Location of mine		Depth of shaft	Product used for—	Method of hoisting	Method of mining
	Post office	County				
Aluminum Company of America	Rosiclare	Hardin	900′	Making acid fluorspar concentrates	Electric	Hand and machine
The Eagle-Picher Co	Galena	JoDaviess	265′	Milled into lead and zinc concentrates	Electric	Machine
Goose Creek Fluorspar Mining Co., Inc	Cave-In-Rock	Hardin	270′	Flux in steel, paint and chemicals	Gasoline	Hand and machine
Mackey-Humm Fluorspar Mining Co	Golconda	Hardin	300′	Manufacturing steel and aluminum	Electric	Hand and machine
Minerva Oil Co., "Crystal Mine"	Elizabethtown	Hardin	100′	Ceramic, acid flotation product	Electric	Machine
Minerva Oil Co., "#1 Mine"	Cave-In-Rock	Hardin	640′	Glass, enamel, steel and zinc	Electric	Machine
Ozark-Mahoning Co	Rosiclare	Hardin	141′-704′		Electric and gasoline	Machine
P. M. T. Mining Co	Golconda	Pope	300′		Gasoline	Hand and Machine
Rosiclare Lead and Fluorspar Mining Co	Rosiclare	Hardin	800′	Fluxing steel, porcelain enamel and glassware	Electric, gasoline and steam	Hand and machine
Ray Stone, "Preen Mine"	Elizabethtown	Hardin	30′		Gasoline	Hand
Ray Stone, "Stewart Mine"	Elizabethtown	Hardin	50′		Gasoline	Hand
Tamora Mining Co	Elizabethtown	Hardin	300′		Gasoline	Hand and machine
Tri-State Zinc, Inc	Galena	JoDaviess	194′-291′		Inclined adit with Dumptor Diesel trucks	Machine
Victory Fluorspar Mining Co	Elizabethtown	Hardin	160′-190′	Making steel	Steam	Hand and machine

METAL MINES OPERATION—1954

Name of operator	Production in tons	Number employed	Days worked	Zinc and lead	Explosives used—dynamite, pounds	Accidents		Tons shipped to—		
						Fatal	Non-fatal	Illinois	Other states	Foreign countries
Aluminum Company of America	78,186	140	256		198,225		122	55,683		
The Eagle-Picher Co	111,525	59	165	111,525	70,850		22	5,330		
Goose Creek Fluorspar Mining Co., Inc	2,368	7	173		9,250		2	2,368		
Mackey-Humm Fluorspar Mining Co	7,128	20	150		15,000		2	3,761	3,367	
Minerva Oil Co., "Crystal Mine"	6,496	30			21,750			448	6,048	
Minerva Oil Co., "#1 Mine"	48,232	62	224		51,300		2			
Ozark-Mahoning Co	53,032							53,032		
P. M. T. Mining Co	1,662	16	51		500				1,662	
Rosiclare Lead and Fluorspar Mining Co	9,253	150	42		6,650		5	415	3,683	479
Ray Stone, "Preen Mine"	110	3	30		50				110	
Ray Stone, "Stewart Mine"	600	9	120		300				600	
Tamora Mining Co	2,925	16	143		26,400		5			
Tri-State Zinc, Inc	287,842	57	280	287,842	211,700		3	14,867	122	
Victory Fluorspar Mining Co	3,400	10			2,200			3,400		
Total	612,759	579	1,634	399,367	614,175		163	139,304	15,592	479

REPORT OF MINING BOARD EXAMINATIONS

STATE MINE INSPECTORS—1954

Name	Post office	County	Age	Birthplace	Date of examination	No. of certificate
Harris, Joe	Harrisburg	Saline	52	England	June 7, 1954	449
Guiney, George G	Sesser	Franklin	57	Illinois	Sept. 14, 1954	450

MINE MANAGERS—FIRST CLASS—1954

Name	Post office	County	Age	Birthplace	Date of examination	No. of certificate
Burke, John P	Kincaid	Christian	39	Illinois	June 7, 1954	3031
Gastrale, Arduino	Johnston City	Williamson	33	Italy	June 7, 1954	3032
Eddy, Jack J	Pana	Christian	34	Illinois	June 7, 1954	3033
Grant, Deldon R	Petersburg	Menard	29	Vermont	June 7, 1954	3034
Leding, Francis R	Pana	Christian	35	Illinois	June 7, 1954	3035
Schneider, Donald J	Belleville	St. Clair	34	Illinois	June 7, 1954	3036
Teel, Harley L	Herrin	Williamson	28	Illinois	June 7, 1954	3037

MINE MANAGERS—SECOND CLASS—1954

Name	Post office	County	Age	Birthplace	Date of examination	No. of certificate
Davison, William I	DuQuoin	Perry	41	Illinois	June 7, 1954	1720

MINE EXAMINERS—1954

Name	Post office	County	Age	Birthplace	Date of examination	No. of certificate
Avery, Charles E	West Frankfort	Franklin	34	Illinois	June 7, 1954	4688
Beard, Henry Lyle	DuQuoin	Perry	35	Illinois	June 7, 1954	4689
Bridgewater, Harold	Kincaid	Christian	40	Illinois	June 7, 1954	4690
Bucelluni, Guido	Taylorville	Christian	29	Illinois	June 7, 1954	4691
Burke, Patrick	Kincaid	Christian	36	Illinois	June 7, 1954	4692
Campbell, William C	Benton	Franklin	28	Missouri	June 7, 1954	4693
Carson, Richard, Jr	Millstadt	St. Clair	26	Illinois	June 7, 1954	4694
Dempsey, George J	Kincaid	Christian	35	Illinois	June 7, 1954	4695
Emery, Alva	Dowell	Jackson	46	Illinois	June 7, 1954	4696
Emery, Carl	Carterville	Williamson	38	Illinois	June 7, 1954	4697
Ford, Chester E	Auburn	Sangamon	48	Illinois	June 7, 1954	4698
Gillen, William P	Taylorville	Christian	37	Illinois	June 7, 1954	4699
Graham, Frazier	DuQuoin	Perry	53	Tennessee	June 7, 1954	4700
Johnsen, Stanley F	Marion	Williamson	30	Missouri	June 7, 1954	4701
Loman, John E	Kincaid	Christian	32	Illinois	June 7, 1954	4702
Miller, William G	Matherville	Mercer	45	Illinois	June 7, 1954	4703
Padavic, Frank J	Benton	Franklin	30	Illinois	June 7, 1954	4704
Tudor, Benjamin A	Taylorville	Christian	27	Illinois	June 7, 1954	4705
White, James L	Hillsboro	Montgomery	30	Illinois	June 7, 1954	4706
Will, William E	Taylorville	Christian	27	Illinois	June 7, 1954	4707

STEAM HOISTING ENGINEERS—1954

Name	Post office	County	Age	Birthplace	Date of examination	No. of certificate
Sponski, Frank	Springfield	Sangamon	59	Kansas	June 7, 1954	1021

ELECTRICAL HOISTING ENGINEERS—1954

Name	Post office	County	Age	Birthplace	Date of examination	No. of certificate
Bednar, Louis J	Westville	Vermilion	46	Illinois	June 7, 1954	1162
Biby, Dale C	Pinckneyville	Perry	33	Illinois	June 7, 1954	1163
Black, Jesse H	Carrier Mills	Saline	42	Missouri	June 7, 1954	1164
Borum, Harry	Equality	Gallatin	40	Illinois	June 7, 1954	1165
Boyd, Charles	Carrier Mills	Saline	46	Illinois	June 7, 1954	1166
Clayton, William H	Pana	Christian	29	Indiana	June 7, 1954	1167
Diefenbach, Roy	Marion	Williamson	49	Illinois	June 7, 1954	1168
Enoch, Vernie	Marion	Williamson	25	Illinois	June 7, 1954	1169
Flota, David	Carrier Mills	Saline	29	Illinois	June 7, 1954	1170
Goldman, Tom	Eldorado	Saline	35	Illinois	June 7, 1954	1171
Hafford, Clifford	Carrier Mills	Saline	38	Illinois	June 7, 1954	1172
Morris, Robert N	Harrisburg	Saline	32	Illinois	June 7, 1954	1173
Mullinix, Leslie	Harrisburg	Saline	48	Illinois	June 7, 1954	1174
Neihaus, Eugene D	Harrisburg	Saline	29	Illinois	June 7, 1954	1175
Simons, Jess	Eldorado	Saline	55	Kentucky	June 7, 1954	1176
Slack, Clayton F	Harrisburg	Saline	26	Wisconsin	June 7, 1954	1177
Williams, Louie	Harrisburg	Saline	43	Illinois	June 7, 1954	1178
Winemiller, Harold M	Whittington	Franklin	35	Illinois	June 7, 1954	1179
Zamberletti, Arthur	Danville	Vermilion	58	Italy	June 7, 1954	1180

ELECTRICAL HOISTING ENGINEERS—METAL MINES—1954

Name	Post office	County	Age	Birthplace	Date of examination	No. of certificate
Holbrook, Gilbert	Elizabethtown	Hardin	45	Illinois	June 7, 1954	44
Cummins, Lloyd	Golconda	Hardin	34	Illinois	June 7, 1954	45

CERTIFICATES OF COMPLIANCE—EXPLOSIVES—1954

Name	Location of magazine		Pounds of explosives	Certificate number	Fee collected	Number of blasting caps	Certificate number	Fee collected
	Post office	County						
Bell & Zoller Coal Co.	Murdock	Douglas	500	1001	$5.00	500	1002	$5.00
Two Rivers Coal Co.	Danville	Vermilion	400	1003	5.00			
Kedas Coal Co.	Westville	Vermilion	600	1004	5.00	500	1005	5.00
Lakeside Coal Co., Corp.	Pekin	Tazewell	2,000	1006	5.00			
O. W. Lightbody	Glasford	Peoria	4,000	1007	5.00	100	1008	5.00
V-Day Coal Co.	Danville	Vermilion	1,000	1009	5.00	200	1010	5.00
Monmouth Stone Co.	Monmouth	Warren	15,000	1011	5.00	1,000	1012	5.00
Castleberry Quarry	Hillview	Greene	2,000	1013	5.00	500	1014	5.00
Perrottet Leefers Hardware	Carlinville	Macoupin	1,000	1015	5.00	1,000	1016	5.00
Nelson Brothers	Jerseyville	Jersey	200	1017	5.00	1,000	1018	5.00
Morgan Mines, Inc.	Bryant	Fulton	20,000	1019	5.00	20,000	1020	5.00
Baird Clay Mine	Colchester	McDonough	500	1021	5.00	1,000	1022	5.00
Gray Quarries	Hamilton	Hancock	3,000	1023	5.00	10,000	1024	5.00
Colchester Stone Co.	Colchester	McDonough	10,000	1025	5.00	1,000	1026	5.00
Victory Fluorspar Mining Co.	Elizabethtown	Hardin	10,000	1027	5.00	5,000	1028	5.00
Okerson Quarry Co.	Cave-In-Rock	Hardin	20,000	1029	5.00	5,000	1030	5.00
Illinois Powder Mfg. Co.	Belleville	St. Clair	20,000	1031	5.00	50,000	1032	5.00
Illinois Powder Mfg. Co.	Millstadt	St. Clair	100,000	1033	15.00			
Olen Humphres Stone Quarry	Ashmore	Coles	12,000	1034	5.00	6,000	1035	5.00
Olen Humphres Stone Quarry	Ashmore	Coles	12,000	1036	5.00			
Blackhawk Clay Products, Inc.	Carbon Cliff	Rock Island	100	1037	5.00	150	1038	5.00
Sangamon County Highway Department	New Berlin	Sangamon	50	1039	5.00	50	1040	5.00
Pontiac Stone Co.	Pontiac	Livingston	14,000	1041	5.00	10,000	1042	5.00
Pontiac Stone Co.	Pontiac	Livingston	14,000	1043	5.00	10,000	1044	5.00
Wagner Stone Co.	Pontiac	Livingston	25,000	1045	10.00	500	1046	5.00
Livingston Stone Co.	Weston	Livingston	20,000	1047	5.00	2,500	1048	5.00
Lamar Stone Co.	Princeville	Peoria	10,000	1049	5.00	1,500	1050	5.00
Peoria Brick & Tile Co.	East Peoria	Tazewell	300	1051	5.00	200	1052	5.00
E. J. Gideonsen	Hanna City	Peoria	2,000	1053	5.00	500	1054	5.00
Bell & Zoller Coal Co.	Johnston City	Williamson	100	1055	5.00	700	1056	5.00
Bell & Zoller Coal Co.	Zeigler	Franklin	100	1057	5.00	5,000	1058	5.00
Marion County Coal Mining Corp.	Glenridge	Marion	20,000	1059	5.00	20,000	1060	5.00
Bois Coal Co.	Dubois	Washington	5,000	1061	5.00			
Fairview Collieries Corp.	Hillery	Vermilion	15,000	1062	5.00	30,000	1063	5.00
Western Brick Co.	Danville	Vermilion	900	1064	5.00	500	1065	5.00
Pioneer Collieries Co.	Laura	Peoria	4,000	1066	5.00	10,000	1067	5.00
Kotek Hardware	Danville	Vermilion	49	1068	5.00			
Buhner Fertilizer Co.	Danville	Vermilion	400	1069	5.00	1,000	1070	5.00
Big Five Coal Co., Inc.	Cutler	Perry	10,000	1071	5.00			

CERTIFICATES OF COMPLIANCE—EXPLOSIVES—1954—Continued

Name	Location of magazine		Pounds of explosives	Certificate number	Fee collected	Number of blasting caps	Certificate number	Fee collected
	Post office	County						
Washington County Highway Department	Nashville	Washington	1,000	1072	5.00	5,000	1073	5.00
Morgan Coal Co	Edwards	Peoria	10,000	1074	5.00	5,000	1075	5.00
James B. Alcock	Briggsville	Henderson	4,000	1076	5.00	2,000	1077	5.00
Midwest Radiant Corp	Millstadt	St. Clair	60,000	1078	15.00	10,000	1079	5.00
Alton Brick Co	Alton	Madison	3,000	1080	5.00	3,000	1081	5.00
Menke Stone & Lime Co	Quincy	Adams	20,000	1082	5.00	5,000	1083	5.00
Treasure Coal Co	Bartonville	Peoria	600	1084	5.00			
Lumaghi Coal Co	Collinsville	Madison	20,000	1085	5.00	25,000	1086	5.00
Key Coal Co	Summum	Fulton	5,000	1087	5.00	3,000	1088	5.00
Wedron Silica Co	Wedron	LaSalle	20,000	1089	5.00	2,000	1090	5.00
Ottawa Silica Co	Ottawa	LaSalle	8,000	1091	5.00	30,000	1092	5.00
Ottawa Silica Co	Ottawa	LaSalle	50,000	1093	10.00			
Minerva Oil Co	Cave-In-Rock	Hardin	44,000	1094	10.00	50,000	1095	5.00
Seminole Coal Corp	Lenzburg	St. Clair	10,000	1096	5.00	20,000	1097	5.00
Marblehead Lime Co	Quincy	Adams	2,000	1098	5.00	2,000	1099	5.00
Seminole Coal Corp	Lenzburg	St. Clair	30,000	1100	10.00			
Delta Collieries Corp	Marion	Williamson	18,000	1101	5.00	15,000	1102	5.00
Minerva Oil Co	Cave-In-Rock	Hardin	20,000	1103	5.00	10,000	1104	5.00
Morgan Mines, Inc	Energy	Williamson	10,000	1105	5.00	5,000	1106	5.00
Central Limestone Co	Central	Kendall	20,000	1107	5.00	20,000	1108	5.00
Rigsby & Barnard Quarry	Cave-In-Rock	Hardin	20,000	1109	5.00	20,000	1110	5.00
Swift & Co	National City	St. Clair	600	1111	5.00	500	1112	5.00
Little Sister Coal Corp	St. David	Fulton	20,000	1113	5.00	15,000	1114	5.00
Livingston-Mt. Olive Coal Co	Livingston	Madison	300	1115	5.00	5,000	1116	5.00
Putt Creek Coal Co., Inc	Cuba	Fulton	1,000	1117	5.00			
East Side Coal Co., Inc	Freeburg	St. Clair	2,500	1118	5.00			
Virginia-Carolina Chemical Corp	East St. Louis	St. Clair	300	1119	5.00	400	1120	5.00
Armour Fertilizer Works	National City	St. Clair	2,000	1121	5.00	3,000	1122	5.00
American Agricultural Chemical Co	National City	St. Clair	300	1123	5.00	300	1124	5.00
Sahara Coal Co., Inc	Harrisburg	Saline	25,000	1125	10.00	50,000	1126	5.00
Sahara Coal Co., Inc	Carrier Mills	Saline	30,000	1127	10.00	2,500	1128	5.00
Stonefort Corp	Victoria	Knox	20,000	1129	5.00	4,000	1130	5.00
Weber Bros. Eq., Inc	Teutopolis	Effingham	2,000	1131	5.00	1,000	1132	5.00
Arthur E. Vollbracht	Barry	Pike	5,000	1133	5.00	2,000	1134	5.00
Edgar C. Bellrose	Utica	LaSalle	20,000	1135	5.00	500	1136	5.00
Arthur Mart Clay & Coal Co	Utica	LaSalle	1,000	1137	5.00	1,000	1138	5.00
Richards Brick Co	New Douglas	Bond	300	1139	5.00	150	1140	5.00
Black White Limestone Co	Quincy	Adams	2,500	1141	5.00	3,000	1142	5.00
Morris Coal & Mining Co	Morris	Grundy	20,000	1143	5.00	5,000	1144	5.00
Morris Coal & Mining Co	Morris	Grundy	2,000	1145	5.00	500	1146	5.00
Illinois Farm Supply Co	Collinsville	St. Clair	1,000	1147	5.00	500	1148	5.00
Utica Stone Co	Utica	LaSalle	20,000	1149	5.00	1,000	1150	5.00

H. F. Loxley	Concord	Morgan	4,000	1151	5.00	5,000	1152	5.00
Springfield Clay Products Co	Springfield	Sangamon	2,000	1153	5.00	300	1154	5.00
C. N. Wigginton & Son	Oakland	Coles	300	1155	5.00	500	1156	5.00
The Independent Eastern Torpedo Co	Mt. Carmel	Wabash	20,000	1157	5.00			
The Independent Eastern Torpedo Co	Salem	Marion	20,000	1158	5.00			
The Independent Eastern Torpedo Co	Carmi	White	20,000	1159	5.00			
The Independent Eastern Torpedo Co	Crossville	White	20,000	1160	5.00			
The Independent Eastern Torpedo Co	Crossville	White	20,000	1161	5.00			
Hercules Powder Co	Pittsfield	Pike	50,000	1162	10.00	50,000	1163	5.00
Deep Valley Coal Co	Catlin	Vermilion	500	1164	5.00			
Fairview Collieries Corp	Fairview	Fulton	20,000	1165	5.00			
Fairview Collieries Corp	Fairview	Fulton	20,000	1166	5.00			
Fairview Collieries Corp	Fairview	Fulton	20,000	1167	5.00	10,000	1168	5.00
Purington Brick & Tile Co	Galesburg	Knox	200	1169	5.00	100	1170	5.00
Collinson Stone Co	Milan	Rock Island	10,000	1171	5.00	10,000	1172	5.00
Marquette Cement Manufacturing Co	Oglesby	LaSalle	30,000	1173	10.00	25,000	1174	5.00
Alpha Portland Cement Co	LaSalle	LaSalle	25,000	1175	10.00			
Alpha Portland Cement Co	LaSalle	LaSalle	1,500	1176	5.00	10,000	1177	5.00
Lacey & Bauer Quarry	Pearl	Pike	4,000	1178	5.00	1,000	1179	5.00
Oregon Stone Quarries	Oregon	Ogle	4,000	1180	5.00	200	1181	5.00
E. I. du Pont de Nemours & Co	Ottawa	LaSalle	40,000	1182	10.00			
E. I. du Pont de Nemours & Co	Ottawa	LaSalle	24,000	1183	10.00	100,000	1184	5.00
International Minerals & Chemical Corp	Chicago Heights	Cook	200	1185	5.00	200	1186	5.00
Stoneridge Limestone Co	Rochelle	Lee	6,000	1187	5.00	100	1188	5.00
Nowe's Hardware Co	Amboy	Lee	2,000	1189	5.00	1,000	1190	5.00
Builders Supply Co., Inc	Aurora	Kane	200	1191	5.00	500	1192	5.00
Green Top Coal Co	Catlin	Vermilion	300	1193	5.00			
American Cyanamid Co	Lemont	Cook	40,000	1194	10.00			
American Cyanamid Co	Lemont	Cook	50,000	1195	10.00	250,000	1196	5.00
Armour Fertilizer Works	Chicago Heights	Cook	200	1197	5.00	1,000	1198	5.00
Cordova Quarry, Inc	Cordova	Rock Island	10,000	1199	5.00	1,000	1200	5.00
Cordova Quarry, Inc	Erie	Whiteside	10,000	1201	5.00	3,000	1202	5.00
Stephenson County Highway Department	Freeport	Stephenson	5,000	1203	5.00	3,600	1204	5.00
Black & Company Corp	Rockford	Winnebago	2,000	1205	5.00	3,000	1206	5.00
Gregory Excavating Co	Rockford	Winnebago	2,000	1207	5.00	500	1208	5.00
Tri-State Zinc, Inc	Galena	JoDaviess	20,000	1209	5.00	10,000	1210	5.00
Atlas Powder Co	Galena	JoDaviess	100,000	1211	15.00	100,000	1212	5.00
Elmhurst-Chicago Stone Co	Elmhurst	DuPage	500	1213	5.00	20,000	1214	5.00
The American Silica Sand Co., Inc	Utica	LaSalle	20,000	1215	5.00	20,000	1216	5.00
The American Silica Sand Co., Inc	Utica	LaSalle	20,000	1217	5.00	20,000	1218	5.00
The American Silica Sand Co., Inc	Ottawa	LaSalle	20,000	1219	5.00	20,000	1220	5.00
Alldritt Bros	Fulton	Whiteside	20,000	1221	5.00	30,000	1222	5.00
Fred R. McKenzie & Co	Fulton	Whiteside	12,000	1223	5.00	20,000	1224	5.00
Lake County Highway Department	Libertyville	Lake	100	1225	5.00	200	1226	5.00
Garden Prairie Stone Co., Inc	Marengo	McHenry	2,000	1227	5.00	550	1228	5.00
Delmar J. Fischer	Woodbine	JoDaviess	2,500	1229	5.00	10,000	1230	5.00
Gilbert Hardware Co., Inc	Oregon	Ogle	3,500	1231	5.00	7,500	1232	5.00
E. I. du Pont de Nemours & Co	Seneca	Grundy	40,000	1233	10.00	500,000	1234	5.00
E. I. du Pont de Nemours & Co	Dixon	Lee	150,000	1235	20.00			
E. I. du Pont de Nemours & Co	Dixon	Lee	150,000	1236	20.00			

CERTIFICATES OF COMPLIANCE—EXPLOSIVES—1954—Continued

Name	Location of magazine		Pounds of explosives	Certificate number	Fee collected	Number of blasting caps	Certificate number	Fee collected
	Post office	County						
E. I. du Pont de Nemours & Co	DuPage	Will	30,000	1237	10.00			
E. I. du Pont de Nemours & Co	DuPage	Will	60,000	1238	15.00	100,000	1239	5.00
Elgin National Watch Co	South Elgin	Kane				1,000,000	1240	5.00
Charles O'Brien & Son	Morris	Grundy	100	1241	5.00	50	1242	5.00
Porter Brothers	Roscoe	Winnebago	15,000	1243	5.00	500	1244	5.00
Winnebago County Highway Department	Rockford	Winnebago	20,000	1245	5.00	6,000	1246	5.00
H. B. Graham Quarry Co	Gladstone	Henderson	15,000	1247	5.00	1,000	1248	5.00
Consumers Co	McCook	Cook	2,000	1249	5.00	15,000	1250	5.00
Atlas Powder Co	Lemont	Will	100,000	1251	15.00	100,000	1252	5.00
Atlas Powder Co	Dixon	Lee	100,000	1253	15.00	100,000	1254	5.00
Midland Electric Coal Corp	Middlegrove	Fulton				15,000	1255	5.00
Midland Electric Coal Corp	Middlegrove	Fulton	15,000	1256	5.00			
Midland Electric Coal Corp	Middlegrove	Fulton	15,000	1257	5.00			
Explosives Engineering Service, Inc	Dixon	Lee	200,000	1258	20.00			
Explosives Engineering Service, Inc	Dixon	Lee	200,000	1259	20.00			
Explosives Engineering Service, Inc	Dixon	Lee	200,000	1260	20.00			
Explosives Engineering Service, Inc	Dixon	Lee	200,000	1261	20.00	100,000	1262	5.00
LFC Chemical Co., Inc	Dixon	Lee	150,000	1263	20.00			
LFC Chemical Co., Inc	Dixon	Lee	150,000	1264	20.00			
LFC Chemical Co., Inc	Dixon	Lee	150,000	1265	20.00			
LFC Chemical Co., Inc	Dixon	Lee	150,000	1266	20.00			
LFC Chemical Co., Inc	Dixon	Lee	150,000	1267	20.00			
LFC Chemical Co., Inc	Dixon	Lee	150,000	1268	20.00			
LFC Chemical Co., Inc	Dixon	Lee	150,000	1269	20.00			
LFC Chemical Co., Inc	Dixon	Lee	75,000	1270	15.00			
The University of Chicago	Chicago	Cook	5	1271	5.00	500	1272	5.00
Blue Lake Coal Co	Catlin	Vermilion	10,000	1273	5.00	10,000	1274	5.00
B-10 Coal Co	Catlin	Vermilion	500	1275	5.00	500	1276	5.00
Midwest-Radiant Corp	Millstadt	St. Clair	30,000	1277	10.00			
MacLean-Grove & Co., Inc	Tuscola	Douglas	20,000	1278	5.00	5,000	1279	5.00
Chester Quarry Co	Chester	Randolph	20,000	1280	5.00	10,000	1281	5.00
Smith-Douglas Co., Inc	Streator	Livingston	2,000	1282	5.00	5,000	1283	5.00
Anna J. Ashley	Sibley	Ford	10,000	1284	5.00	10,000	1285	5.00
Andrew Sepesi	Peoria	Peoria	175	1286	5.00			
E. I. du Pont de Nemours & Co	Peoria	Peoria	20,000	1287	5.00	10,000	1288	5.00
E. I. du Pont de Nemours & Co	Peoria	Peoria	50,000	1289	10.00			
Jim Mine, Inc	Coal Valley	Henry	1,000	1290	5.00	100	1291	5.00
Bugos-White Coal Co	Alpha	Henry	5,000	1292	5.00	20,000	1293	5.00
Alpha Coal Co	Alpha	Henry	15,000	1294	5.00			
John McClure Quarry	Colchester	McDonough	12,000	1295	5.00	6,000	1296	5.00
D. & D. Coal Co	Rushville	Schuyler	500	1297	5.00	500	1298	5.00
Saxton Coal Corp	Stonefort	Saline	15,000	1299	5.00	500	1300	5.00

Keystone Steel & Wire Co.	Bartonville	Peoria	200	1301	5.00	600	1302	5.00
E. I. du Pont de Nemours & Co.	Peoria	Peoria	50,000	1303	10.00	30,000	1304	5.00
Forsyth Williamson Coal Co.	Cambria	Williamson	2,500	1305	5.00			
Forsyth Williamson Coal Co.	Cambria	Williamson	25,000	1306	10.00	1,000	1307	5.00
Truax-Traer Coal Co. (Burning Star)	Elkville	Jackson	95,000	1308	15.00	25,000	1309	5.00
Darling & Co.	East St. Louis	St. Clair	100	1310	5.00			
Darling & Co.	East St. Louis	St. Clair	100	1311	5.00	1,000	1312	5.00
Sheffield Shale Products Co.	Sheffield	Bureau	3,000	1313	5.00	10,000	1314	5.00
Chicago Retort & Fire Brick Division	Ottawa	LaSalle	5,000	1315	5.00	6,000	1316	5.00
Standard Silica Corp.	Ottawa	LaSalle	1,000	1317	5.00	5,000	1318	5.00
Standard Silica Corp.	Ottawa	LaSalle	22,000	1319	10.00			
Truax-Traer Coal Co., Mine #2	Pinckneyville	Perry	150,000	1320	20.00	35,000	1321	5.00
Alpha Coal Co.	Alpha	Henry				10,000	1322	5.00
Atlas Powder Co.	Lenzburg	St. Clair	50,000	1323	10.00			
Atlas Powder Co.	Lenzburg	St. Clair	50,000	1324	10.00			
Atlas Powder Co.	Lenzburg	St. Clair	50,000	1325	10.00			
Atlas Powder Co.	Lenzburg	St. Clair	50,000	1326	10.00			
Atlas Powder Co.	Marion	Williamson	25,000	1327	10.00			
Atlas Powder Co.	Marion	Williamson	20,000	1328	5.00	100,000	1329	5.00
Atlas Powder Co.	Lenzburg	St. Clair				100,000	1330	5.00
Farrand Coal Co.	Riverton	Sangamon	5,000	1331	5.00	1,000	1332	5.00
Cantrall Coal Co.	Cantrall	Sangamon	2,500	1333	5.00	2,000	1334	5.00
LeHigh Portland Cement Co.	Oglesby	LaSalle	30,000	1335	10.00	10,000	1336	5.00
LeHigh Portland Cement Co.	Oglesby	LaSalle	8,000	1337	5.00			
Manteno Limestone Co.	Manteno	Kankakee	20,000	1338	5.00	10,000	1339	5.00
Little Coal Co.	Maquon	Knox	1,000	1340	5.00			
The Pure Oil Co.	Clay City	Clay	500	1341	5.00	500	1342	5.00
Morgan Mines, Inc.	Millstadt	St. Clair	15,000	1343	5.00	200	1344	5.00
Truax-Traer Coal Co. (Pyramid Mine)	Pinckneyville	Perry	100,000	1345	15.00	25,000	1346	5.00
Hydraulic-Press Brick Co.	Sparland	Marshall	2,000	1347	5.00	1,000	1348	5.00
Hill Brick Co.	East St. Louis	St. Clair	450	1349	5.00	50	1350	5.00
Mackey-Humm Fluorspar Mining Co.	Golconda	Hardin	5,000	1351	5.00	5,000	1352	5.00
Western Illinois Stone Co.	Brooklyn	Schuyler	5,000	1353	5.00	500	1354	5.00
Missouri Gravel Co.	Clayton	Schuyler	5,000	1355	5.00	500	1356	5.00
Herrcke's Hardware	LaSalle	LaSalle	1,000	1357	5.00	3,000	1358	5.00
Purity Coal Co.	Belleville	St. Clair	2,000	1359	5.00	500	1360	5.00
George M. Pendergast & Co.	Utica	LaSalle	300	1361	5.00	3,000	1362	5.00
Long Rock Co.	Princeville	Peoria	10,000	1363	5.00	1,000	1364	5.00
Athens Stone Quarry	Athens	Menard	4,000	1365	5.00	2,000	1366	5.00
East St. Louis Stone Co.	Dupo	St. Clair	20,000	1367	5.00	10,000	1368	5.00
The Casper Stolle Quarry & Cont. Co.	East St. Louis	St. Clair	20,000	1369	5.00	20,000	1370	5.00
Aluminum Co. of America	Rosiclare	Hardin	2,000	1371	5.00	50,000	1372	5.00
Aluminum Co. of America	Rosiclare	Hardin				50,000	1373	5.00
Aluminum Co. of America	Rosiclare	Hardin	20,000	1374	5.00			
Aluminum Co. of America	Rosiclare	Hardin	20,000	1375	5.00			
Aluminum Co. of America	Rosiclare	Hardin	20,000	1376	5.00			
The Independent Eastern Torpedo Co.	Robinson	Crawford	20,000	1377	5.00			
The Independent Eastern Torpedo Co.	Robinson	Crawford	20,000	1378	5.00			
The Independent Eastern Torpedo Co.	Casey	Clark	20,000	1379	5.00			
The Independent Eastern Torpedo Co.	Casey	Clark	20,000	1380	5.00			

CERTIFICATES OF COMPLIANCE—EXPLOSIVES—1954—Continued

Name	Location of magazine		Pounds of explosives	Certificate number	Fee collected	Number of blasting caps	Certificate number	Fee collected
	Post office	County						
The Independent Eastern Torpedo Co	Casey	Clark	20,000	1381	5.00	1,000	1382	5.00
The Independent Eastern Torpedo Co	St. Elmo	Effingham	20,000	1383	5.00			
E. I. du Pont de Nemours & Co	Marion	Williamson	75,000	1384	15.00			
E. I. du Pont de Nemours & Co	Marion	Williamson	35,000	1385	10.00	400,000	1386	5.00
E. I. du Pont de Nemours & Co	Belleville	St. Clair				250,000	1387	5.00
E. I. du Pont de Nemours & Co	Springfield	Sangamon	30,000	1388	10.00			
E. I. du Pont de Nemours & Co	Springfield	Sangamon	35,000	1389	10.00	60,000	1390	5.00
E. I. du Pont de Nemours & Co	Belleville	St. Clair	40,000	1391	10.00			
E. I. du Pont de Nemours & Co	Belleville	St. Clair	70,000	1392	15.00	500,000	1393	5.00
Rosiclare Lead and Fluorspar Mining Co	Rosiclare	Hardin	50,000	1394	10.00	25,000	1395	5.00
Blue Bird Coal Co., #8	Harrisburg	Williamson	5,000	1396	5.00	5,000	1397	5.00
The Ohio Oil Co	Robinson	Crawford	1,000	1398	5.00	300	1399	5.00
Atlas Powder Co	Quincy	Adams	25,000	1400	10.00			
Atlas Powder Co	Quincy	Adams	30,000	1401	10.00	500,000	1402	5.00
Williams Hardware Co	Streator	Livingston	5,000	1403	5.00	3,000	1404	5.00
Ocoya Stone Co	Chenoa	Livingston	20,000	1405	5.00	1,000	1406	5.00
Rocky Ford Limestone Co	Lincoln	Logan	20,000	1407	5.00	2,500	1408	5.00
American Smelting and Refining Co	Alton	Madison	100	1409	5.00	200	1410	5.00
Mississippi Lime Co. of Missouri	Alton	Madison	2,000	1411	5.00	2,000	1412	5.00
Moffat Coal Co	Sparta	Randolph	2,000	1413	5.00	5,000	1414	5.00
Indian Creek Coal Co	Petersburg	Menard	2,500	1415	5.00			
William Libben	Petersburg	Menard	75	1416	5.00	50	1417	5.00
Indian Point Limestone Products	Athens	Menard	3,000	1418	5.00			
Indian Point Limestone Products	Athens	Menard	10,000	1419	5.00	1,000	1420	5.00
Venedy Coal Co., Inc	Venedy	Washington	2,000	1421	5.00			
Chicago, Wilmington & Franklin Coal Co	Orient	Franklin	500	1422	5.00	10,000	1423	5.00
The United Electric Coal Co	DuQuoin	Perry	25,000	1424	10.00			
The United Electric Coal Co	DuQuoin	Perry	30,000	1425	10.00			
The United Electric Coal Co	DuQuoin	Perry	30,000	1426	10.00	25,000	1427	5.00
Peabody Coal Co., Mine #43	Harrisburg	Saline	10,000	1428	5.00	1,000	1429	5.00
Hercules Powder Co	Lockport	Will	50,000	1430	10.00	250,000	1431	5.00
Hercules Powder Co	Lockport	Will	50,000	1432	10.00			
Illinois Powder Mfg. Co	Lemont	Will	50,000	1433	10.00	50,000	1434	5.00
Powers Thompson Construction Co	Joliet	Will	200	1435	5.00	4,000	1436	5.00
Lincoln Crushed Stone Co	Joliet	Will	20,000	1437	5.00	10,000	1438	5.00
Zaborac Coal Co	Peoria	Peoria	1,000	1439	5.00	500	1440	5.00
St. Elmo Brick & Tile Co., Inc	St. Elmo	Fayette	2,000	1441	5.00	500	1442	5.00
Sporleder Coal Co	Belleville	St. Clair	500	1443	5.00			
Southwestern Illinois Coal Corp	Percy	Randolph	40,000	1444	10.00	10,000	1445	5.00
Collins Bros. Coal Co	Peoria	Peoria	250	1446	5.00			
Beecham Coal Co	Glasford	Peoria	600	1447	5.00			
Trivoli Stone Co	Trivoli	Peoria	5,000	1448	5.00	5,000	1449	5.00

Federal Chemical Co., Corp	Danville	Vermilion	250	1450	5.00	500	1451	5.00
Chenoa Stone Co	Chenoa	Livingston	20,000	1452	5.00	2,000	1453	5.00
M. H. Musgrave Hardware Co	Hutsonville	Crawford	500	1454	5.00	2,000	1455	5.00
Peabody Coal Co., Mine #17	Pana	Christian	5,000	1456	5.00	10,000	1457	5.00
Hecker Quarry, Inc	Hecker	St. Clair	10,000	1458	5.00	1,500	1459	5.00
Lee Coal Mining Co	Peoria	Peoria	500	1460	5.00	3,000	1461	5.00
J. & J. Coal Co., Inc	Mapleton	Peoria	2,500	1462	5.00	5,000	1463	5.00
Granite City Steel Co	Granite City	Madison	3,000	1464	5.00	2,500	1465	5.00
Granite City Steel Co	Granite City	Madison				500	1466	5.00
Pearl Stone Co	Pearl	Pike	10,000	1467	5.00	5,000	1468	5.00
Jersey Quarry, Inc	Fieldon	Jersey	10,000	1469	5.00	10,000	1470	5.00
Loy Hardware Co	Effingham	Effingham	2,000	1471	5.00	5,000	1472	5.00
Orton Quarry	Hillview	Greene	2,000	1473	5.00	1,500	1474	5.00
Phillips Coal Co	Carbondale	Jackson	500	1475	5.00			
Frederic Brick & Tile Co	Mt. Sterling	Brown	200	1476	5.00	125	1477	5.00
Olson Bros. Quarry	Dallas City	Henderson	10,000	1478	5.00	1,000	1479	5.00
Redd Mining Co	Golconda	Hardin	10,000	1480	5.00	5,000	1481	5.00
Stocker Gravel & Construction Co	Highland	Madison	1,000	1482	5.00	900	1483	5.00
James W. Patton & Sons	Elizabethtown	Hardin	20,000	1484	5.00	25,000	1485	5.00
Trojan Powder Co	Ottawa	LaSalle	35,000	1486	10.00	25,000	1487	5.00
Troy Grove Stone Quarry, Inc	Troy Grove	LaSalle	9,000	1488	5.00	2,000	1489	5.00
Bloomington Gun Co	Bloomington	McLean	4,000	1490	5.00	10,000	1491	5.00
Peabody Coal Co., Mine #40	Galatia	Williamson	1,250	1492	5.00	1,000	1493	5.00
Cutler Coal Co., Inc	Cutler	Perry	5,000	1494	5.00	5,000	1495	5.00
Material Service Corp	Fairmount	Vermilion	30,000	1496	10.00	10,000	1497	5.00
Wilcox Verna Coal Co	Petersburg	Menard	2,000	1498	5.00			
Valstad Quarry	Berdan	Greene	6,000	1499	5.00	2,000	1500	5.00
Schlieper Bros. Limestone Co	Belleview	Calhoun	400	1501	5.00	300	1502	5.00
Nathan Lang Quarry	Charleston	Coles	3,000	1503	5.00	1,500	1504	5.00
Quality Lime Co	Marshall	Clark	14,000	1505	5.00	5,000	1506	5.00
Ozark Minerals Co	Elco	Alexander	4,000	1507	5.00	6,000	1508	5.00
Tamms Industries	Elco	Alexander	3,000	1509	5.00	4,000	1510	5.00
Trojan Powder Co	Quincy	Adams	45,000	1511	10.00			
Trojan Powder Co	Quincy	Adams	45,000	1512	10.00	150,000	1513	5.00
The United Electric Coal Co	Cuba	Fulton	20,000	1514	5.00			
The United Electric Coal Co	Cuba	Fulton	20,000	1515	5.00	50,000	1516	5.00
Howard Scott	Glasford	Peoria	500	1517	5.00			
Austin Powder Co	Bradfordton	Sangamon	60,000	1518	15.00	30,000	1519	5.00
Zink Coal Co	Freeburg	St. Clair	250	1520	5.00			
Putt Creek Coal Co., Inc	Cuba	Fulton				1,000	1521	5.00
Rock & Stevenson Coal Co	Peoria	Peoria	300	1522	5.00			
Anna Quarries, Inc	Anna	Union	20,000	1523	5.00	30,000	1524	5.00
Columbia Quarry Co	Valmeyer	Monroe	500	1525	5.00			
Columbia Quarry Co	Valmeyer	Monroe	20,000	1526	5.00	25,000	1527	5.00
Columbia Quarry Co	Valmeyer	Monroe	20,000	1528	5.00	2,000	1529	5.00
Reliance Whiting Co	Alton	Madison	2,000	1530	5.00	3,000	1531	5.00
Mississippi Lime Co. of Missouri	Alton	Madison	20,000	1532	5.00	2,500	1533	5.00
W. Schubert Coal Co	Mascoutah	St. Clair	1,000	1534	5.00			
Illinois Silica Sand Co	Ottawa	LaSalle	20,000	1535	5.00	2,000	1536	5.00
Service Coal Co	Pinckneyville	Perry	3,000	1537	5.00			

CERTIFICATES OF COMPLIANCE—EXPLOSIVES—1954—Continued

Name	Location of magazine		Pounds of explosives	Certificate number	Fee collected	Number of blasting caps	Certificate number	Fee collected
	Post office	County						
Illinois Clay Products Co.	Morris	Grundy	10,000	1538	5.00	1,000	1539	5.00
National Stone Co.	Joliet	Will	10,000	1540	5.00	2,500	1541	5.00
Pekin Coal Co.	Equality	Gallatin	3,000	1542	5.00	2,000	1543	5.00
W. F. Hamma Quarry	Nauvoo	Hancock	3,000	1544	5.00	1,000	1545	5.00
Charter Oak Coal Co.	Peoria	Peoria	250	1546	5.00			
The United Electric Coal Co.	Canton	Fulton	15,000	1547	5.00			
The United Electric Coal Co.	Canton	Fulton	35,000	1548	10.00	40,000	1549	5.00
Hydraulic-Press Brick Co.	French Village	St. Clair	200	1550	5.00	100	1551	5.00
Green Coal Co.	Camden	Schuyler	2,000	1552	5.00	1,000	1553	5.00
Columbia Quarry Co.	Columbia	St. Clair	100,000	1554	15.00			
Columbia Quarry Co.	Columbia	St. Clair	1,000	1555	5.00	50,000	1556	5.00
Calhoun Quarry Co.	Batchtown	Calhoun	2,000	1557	5.00	1,000	1558	5.00
Sievers Bros. Quarry	Hardin	Jersey	2,000	1559	5.00	1,000	1560	5.00
Ed. R. Herbolsheimer	Bureau	Bureau	2,000	1561	5.00	1,000	1562	5.00
Peabody Coal Co., Mine #8	Tovey	Christian	1,000	1563	5.00	20,000	1564	5.00
Ralph E. Montgomery Rock Crusher	Marshall	Clark	6,000	1565	5.00	5,000	1566	5.00
Nelson Watkins	Petersburg	Menard	200	1567	5.00	200	1568	5.00
Bond County Highway Department	Greenville	Bond	400	1569	5.00	100	1570	5.00
Vickers & Blowers	Centralia	Marion	1,500	1571	5.00	5,000	1572	5.00
Radom Quarry	Radom	Washington	7,000	1573	5.00	3,000	1574	5.00
Troy Grove Stone Co.	Troy Grove	LaSalle	2,000	1575	5.00	1,500	1576	5.00
St. Louis & O'Fallon Coal Co.	Belleville	St. Clair	4,000	1577	5.00	25,000	1578	5.00
Shiloh Valley Coal Co.	Belleville	St. Clair	2,000	1579	5.00			
Pringle Powder Co., Inc.	Mt. Carmel	Wabash	5,000	1580	5.00			
Glore & Fritz Coal Co.	Ellisville	Fulton	100	1581	5.00			
K. M. D. Mining Co.	Cave-In-Rock	Hardin	20,000	1582	5.00	10,000	1583	5.00
Acme Casing Pulling Co.	Grayville	Edwards	300	1584	5.00	450	1585	5.00
E. I. du Pont de Nemours & Co.	Lawrenceville	Lawrence	5,000	1586	5.00	1,000	1587	5.00
E. I. du Pont de Nemours & Co.	Carmi	White	4,500	1588	5.00	1,000	1589	5.00
Old Ben Coal Corp.	Buckner	Franklin	20,000	1590	5.00	15,000	1591	5.00
Quality Lime Co.	Stewardson	Shelby	14,000	1592	5.00	10,000	1593	5.00
Northern Illinois Coal Corp.	Wilmington	Grundy	40,000	1594	10.00			
Northern Illinois Coal Corp.	Wilmington	Grundy	40,000	1595	10.00	25,000	1596	5.00
J. H. Keller, Highway Commissioner	Pontiac	Livingston	3,000	1597	5.00	200	1598	5.00
Wheelhouse Coal Co.	Rushville	Schuyler	2,000	1599	5.00			
Missouri Gravel Co.	Richfield	Adams	3,000	1600	5.00	800	1601	5.00
Western Illinois Stone Co.	Quincy	Adams	3,000	1602	5.00	800	1603	5.00
Stonefort Corp., "Will Scarlet" Mine	Stonefort	Williamson	20,000	1604	5.00	1,000	1605	5.00
Ellisville Mining Co.	Mareitta	Fulton	1,000	1606	5.00			
Levi Ruleman	Ottawa	LaSalle	300	1607	5.00	100	1608	5.00
Pringle Powder Co., Inc.	Robinson	Crawford	2,000	1609	5.00			
Pringle Powder Co., Inc.	Salem	Marion	5,000	1610	5.00			

Pringle Powder Co., Inc	Salem	Marion	5,000	1611	5.00			
Tierney Bros	West Union	Clark	1,000	1612	5.00	500	1613	5.00
Winter's Stone Quarry	Gilmore	Effingham	12,000	1614	5.00	8,000	1615	5.00
The Ohio Oil Co	Bridgeport	Lawrence	100	1616	5.00	500	1617	5.00
Albion Brick Co	Albion	Edwards	2,000	1618	5.00	500	1619	5.00
Knoxville Mining Co	Knoxville	Knox	5,000	1620	5.00	500	1621	5.00
Medusa Portland Cement Co	Dixon	Lee	30,000	1622	10.00	12,000	1623	5.00
Morton Salt Co	Chicago	Cook	100	1624	5.00	1,000	1625	5.00
Charles Madsen	Lake Villa	Lake	40	1626	5.00	50	1627	5.00
Armour Research Foundation of Illinois Institute of Technology	Chicago	Cook	50	1628	5.00			
Belvidere Lime Quarry	Belvidere	Boone	5,000	1629	5.00	500	1630	5.00
Ralph E. Johnson	Geneseo	Henry	2,000	1631	5.00	1,000	1632	5.00
A. T. Kingery	Lanark	Carroll	4,000	1633	5.00	2,000	1634	5.00
Rockford Blacktop Construction Co	Rochelle	Ogle	10,000	1635	5.00	800	1636	5.00
Shillings Gravel Pit	Hazelhurst	Ogle	200	1637	5.00	100	1638	5.00
Ringwood Chemical Corp	Ringwood	McHenry	50,000	1639	10.00			
Ringwood Chemical Corp	Ringwood	McHenry	800	1640	5.00			
Ward McGinnis	Dixon	Lee	1,000	1641	5.00			
E. Wienen & Sons	Galena	JoDaviess	500	1642	5.00	500	1643	5.00
Zenith Radio Corp	Chicago	Cook				100,000	1644	5.00
Johnson Coal Co	Morrison	Whiteside	3,000	1645	5.00	5,000	1646	5.00
Fox River Stone Co	Elgin	Kane	12,000	1647	5.00	5,000	1648	5.00
LeHigh Stone Co	Kankakee	Kankakee	20,000	1649	5.00	5,000	1650	5.00
LeHigh Stone Co	Kankakee	Kankakee	500	1651	5.00			
The Eagle-Picher Co	Galena	JoDaviess	50,000	1652	10.00	10,000	1653	5.00
Harry Posey	Stockton	JoDaviess	200	1654	5.00	500	1655	5.00
Frank N. Butler Co	Lee Center	Lee	4,000	1656	5.00	600	1657	5.00
Consumers Co	McCook	Cook	1,000	1658	5.00	15,000	1659	5.00
E. I. du Pont de Nemours & Co	Seneca	Grundy	225,000	1660	25.00			
E. I. du Pont de Nemours & Co	Seneca	Grundy	200,000	1661	20.00			
E. I. du Pont de Nemours & Co	Seneca	Grundy	225,000	1662	25.00			
E. I. du Pont de Nemours & Co	Seneca	Grundy	75,000	1663	15.00			
E. I. du Pont de Nemours & Co	Seneca	Grundy	70,000	1664	15.00			
Material Service Corp	McCook	Cook	2,000	1665	5.00	6,000	1666	5.00
Material Service Corp	Lockport	Will	300	1667	5.00			
Material Service Corp	Lyons	Cook	3,000	1668	5.00	10,000	1669	5.00
Material Service Corp	Thornton	Cook	30,000	1670	10.00	10,000	1671	5.00
Material Service Corp	Chicago	Cook	2,000	1672	5.00	10,000	1673	5.00
Dolese & Shepard Co	McCook	Cook	5,000	1674	5.00	3,000	1675	5.00
E. I. du Pont de Nemours & Co	Dixon	Lee	150,000	1676	20.00			
Benjamin Armstrong	Patterson	Greene	500	1677	5.00	200	1678	5.00
J. V. & Lyndall W. Wyatt	Roodhouse	Greene	1,000	1679	5.00	1,000	1680	5.00
Campbell Quarries	Milton	Pike	10,000	1681	5.00	3,000	1682	5.00
Thomas Quarry	Winchester	Scott	400	1683	5.00	1,300	1684	5.00
Southern Illinois State Penitentiary	Chester	Randolph	1,000	1685	5.00	1,000	1686	5.00
Al Stotz Quarry	Prairie du Rocher	Randolph	10,000	1687	5.00	5,000	1688	5.00
Maeystown Quarry Co	Maeystown	Monroe	2,000	1689	5.00	1,000	1690	5.00
Illinois State Penitentiary	Joliet	Will	3,000	1691	5.00	1,000	1692	5.00
Department of Conservation	Havana	Mason	300	1693	5.00	500	1694	5.00

CERTIFICATES OF COMPLIANCE—EXPLOSIVES—1954—Continued

Name	Location of magazine		Pounds of explosives	Certificate number	Fee collected	Number of blasting caps	Certificate number	Fee collected
	Post office	County						
Breese Coal Co	Breese	Clinton	2,000	1695	5.00	5,000	1696	5.00
E. I. du Pont de Nemours & Co	Stoy	Crawford	5,000	1697	5.00	2,500	1698	5.00
E. I. du Pont de Nemours & Co	Casey	Clark	7,500	1699	5.00			
E. I. du Pont de Nemours & Co	Stoy	Crawford	5,000	1700	5.00			
E. I. du Pont de Nemours & Co	Robinson	Crawford	1,500	1701	5.00	1,000	1702	5.00
E. I. du Pont de Nemours & Co	Salem	Marion	2,500	1703	5.00	1,000	1704	5.00
E. I. du Pont de Nemours & Co	McLeansboro	Hamilton	5,000	1705	5.00	1,000	1706	5.00
E. I. du Pont de Nemours & Co	Fairfield	Wayne	5,000	1707	5.00	200	1708	5.00
Casey Stone Co	Casey	Clark	20,000	1709	5.00	10,000	1710	5.00
Casey Stone Co	Casey	Clark	20,000	1711	5.00	10,000	1712	5.00
Solvay Process Division, Allied Chemical & Dye Corp	Prairie du Rocher	Randolph	30,000	1713	10.00	25,000	1714	5.00
Triple S Mines, #2	Augusta	Adams	5,000	1715	5.00	500	1716	5.00
Mt. Olive & Staunton Coal Co	Staunton	Madison	200	1717	5.00	30,000	1718	5.00
Acme Silica Sand Co	Ottawa	LaSalle	200	1719	5.00	100	1720	5.00
Illinois Quarry Co	Campbell Hill	Jackson	10,000	1721	5.00	3,000	1722	5.00
Jonesboro Stone Co	Anna	Union	10,000	1723	5.00	5,000	1724	5.00
The Charles Stone Co	Cypress	Johnson	50,000	1725	10.00	5,000	1726	5.00
Columbia Quarry Co	Ullin	Pulaski	30,000	1727	10.00	20,000	1728	5.00
Peabody Coal Co., #10	Pawnee	Christian	20,000	1729	5.00			
Perry Coal Co	O'Fallon	St. Clair	10,000	1730	5.00	2,500	1731	5.00
Joe Mitchell	St. David	Fulton	4,000	1732	5.00	300	1733	5.00
Krueger Quarry	Winchester	Scott	2,000	1734	5.00	500	1735	5.00
Bond Stone Co	Sorento	Bond	5,000	1736	5.00	1,000	1737	5.00
Independent Explosives Co	Benton	Franklin	10,000	1738	5.00			
Independent Explosives Co	Benton	Franklin	60,000	1739	15.00	100,000	1740	5.00
Independent Explosives Co	Benton	Franklin	30,000	1741	10.00	100,000	1742	5.00
A-1 Casing Pulling Co	Grayville	Edwards	500	1743	5.00	100	1744	5.00
W. H. Johns	Cambria	Williamson	100	1745	5.00			
French Coal Co., Inc	Kangley	LaSalle	1,000	1746	5.00			
Baiett & Talbot Coal Co	Streator	Livingston	500	1747	5.00	200	1748	5.00
Little Dog Coal Co	Gillespie	Macoupin	300	1749	5.00	5,000	1750	5.00
Midland Electric Coal Corp	Mineral	Bureau	35,000	1751	10.00	5,000	1752	5.00
Liverpool Coal Co	Liverpool	Fulton	3,000	1753	5.00			
M. J. Boyle & Co	Summit	Cook	1,000	1754	5.00	500	1755	5.00
Trojan Powder Co	Romeo	Will	100,000	1756	15.00			
Trojan Powder Co	Romeo	Will	60,000	1757	15.00			
Trojan Powder Co	Romeo	Will	10,000	1758	5.00			
Trojan Powder Co	Romeo	Will	100,000	1759	15.00	100,000	1760	5.00
Charles J. Moore	Dallas City	Hancock	2,500	1761	5.00	300	1762	5.00
Pitts Quarry	Radom	Washington	6,000	1763	5.00	2,000	1764	5.00
Vern Mitchell Quarry Co	Browning	Schuyler	10,000	1765	5.00	1,000	1766	5.00
Huelsmann Quarry, Inc	Carlyle	Clinton	10,000	1767	5.00	1,000	1768	5.00

McGlasson & Shaw Quarry	Hillview	Greene	2,000	1769	5.00	1,500	1770	5.00
Superior Coal Co	Wilsonville	Macoupin	1,000	1771	5.00	1,000	1772	5.00
Birch Creek Coal Co	Roodhouse	Greene	4,000	1773	5.00	2,000	1774	5.00
Roy Corder	Crab Orchard	Williamson	2,000	1775	5.00			
The P. R. Brown Stone Co	Rosiclare	Pope	4,000	1776	5.00	500	1777	5.00
Truax-Traer Coal Co	Fiatt	Fulton	30,000	1778	10.00	30,000	1779	5.00
Trojan Powder Co	Wolf Lake	Union	250,000	1780	25.00			
Trojan Powder Co	Wolf Lake	Union	250,000	1781	25.00			
Trojan Powder Co	Wolf Lake	Union	250,000	1782	25.00			
B. & W. Coal Co	Junction	Gallatin	3,000	1783	5.00	1,500	1784	5.00
Walter Richard	Liverpool	Fulton	800	1785	5.00	500	1786	5.00
Continental Fireworks Manufacturing & Display Co., Inc.	Jacksonville	Morgan	600	1787	5.00			
Lloyd Mine	Tallula	Menard	400	1788	5.00			
Iola Stone & Material Co	Iola	Clay	10,000	1789	5.00	2,000	1790	5.00
E. I. du Pont de Nemours & Co	Seneca	Grundy				500,000	1791	5.00
A. H. McCormick and Sons	Rushville	Schuyler	5,000	1792	5.00			
Independent Shooters Associated	Casey	Clark	15,000	1793	5.00	500	1794	5.00
Virden Mining Corp	Virden	Macoupin	1,000	1795	5.00	5,000	1796	5.00
E. I. du Pont de Nemours & Co	St. Elmo	Fayette	7,500	1797	5.00	1,000	1798	5.00
The Independent Shooters Associated	St. Elmo	Effingham	15,000	1799	5.00	500	1800	5.00
Freeman Coal Mining Corp., "Crown" Mine	Farmersville	Montgomery	3,000	1801	5.00			
Powers-Thompson Construction Co	Joliet	Will	200	1802	5.00	4,000	1803	5.00
Illinois Farm Supply Co	Collinsville	St. Clair	1,000	1804	5.00			
LaClede Christy Co	White Hall	Greene				500	1805	5.00
Ozark-Mahoning Co	Cave-In-Rock	Hardin	20,000	1806	5.00	15,000	1807	5.00
Ozark-Mahoning Co	Cave-In-Rock	Hardin	20,000	1808	5.00	15,000	1809	5.00
West Side Coal Co	Sparta	Randolph	250	1810	5.00	1,000	1811	5.00
Nesco Division, New York Ship Building Corp	Jacksonville	Morgan	1,000	1812	5.00			
Nesco Division, New York Ship Building Corp	Jacksonville	Morgan	1,000	1813	5.00			
Missouri Gravel Co	Huntsville	Schuyler	3,000	1814	5.00	700	1815	5.00
The Texas Co	Mascoutah	St. Clair	2,500	1816	5.00	500	1817	5.00
Poston Brick & Concrete Products Co	Springfield	Sangamon	400	1818	5.00	75	1819	5.00
Ozark-Mahoning Co	Cave-In-Rock	Hardin	20,000	1820	5.00	15,000	1821	5.00
Universal Match Corp	Carterville	Williamson	4,000	1822	5.00	100,000	1823	5.00
Universal Match Corp	Carterville	Williamson	20,000	1824	5.00	140,000	1825	5.00
Universal Match Corp	Carterville	Williamson	20,000	1826	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1827	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1828	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1829	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1830	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1831	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1832	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1833	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1834	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1835	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1836	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1837	5.00			
Universal Match Corp	Carterville	Williamson	20,000	1838	5.00			
Total					$3,240.00			$1,765.00 3,240.00
Grand total								$5,005.00

Division of Oil and Gas

DIVISION OF OIL AND GAS

403 East Adams Street
Springfield, Illinois

WILLIAM E. WAYLAND, Oil Conservation Supervisor
Telephones: 8-3409 8-3400 8-6311

S. F. Peterson, Petroleum Engineer

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OIL AND GAS BOARD

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Members: Clarence E. Brehm, Mt. Vernon, Illinois
Vincent J. Nolan, Mt. Vernon, Illinois
Clarence T. Smith, Flora, Illinois
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GENERAL OFFICE

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Clerk Stenographer II	Joyce Philbrick, 629 W. Vine, Springfield, Illinois
Clerk Stenographer II	Mary K. Becker, Petersburg, Illinois
Clerk Stenographer II	Catherine M. Stallone, 510 South Walnut Street, Springfield, Illinois
Clerk Stenographer III	Margaret K. Blalock, 2552 South Seventh Street, Springfield, Illinois

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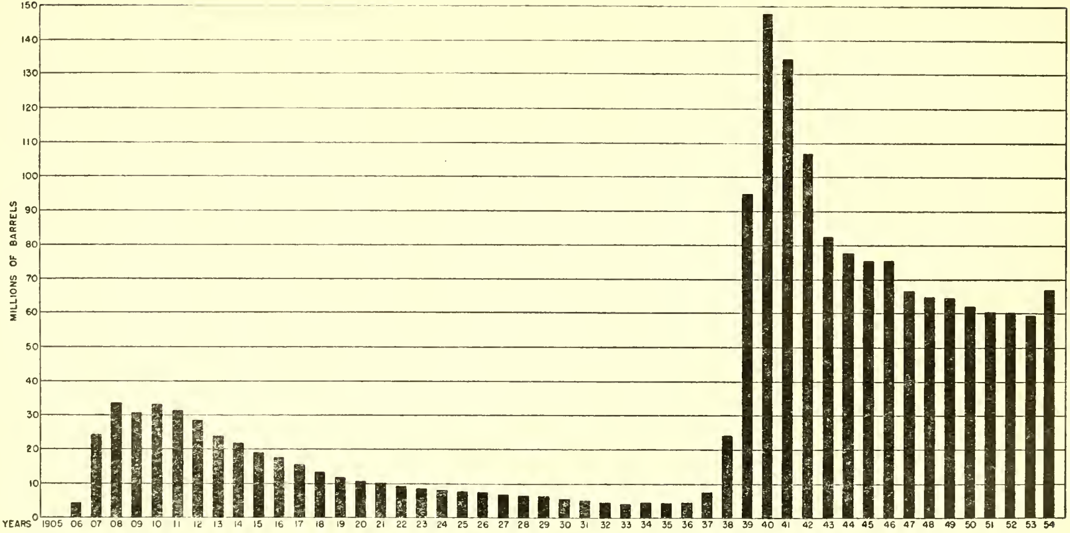
SUMMARY BY COUNTIES OF THE NUMBER OF PERMITS ISSUED, OIL WELLS COMPLETED, AND WELLS PLUGGED DURING 1954 9

ANNUAL CRUDE OIL PRODUCTION IN ILLINOIS



DISCOVERY WELL OF SOUTHEASTERN ILLINOIS OIL FIELD
YOUNG FARM, SEC 17, T 11 N, R 14 W,
CLARK COUNTY, COMPLETED 1904

DISCOVERY WELL OF CLAY CITY FIELD - FIRST IN THE ILLINOIS BASIN
PURE OIL CO WEILER NO 1, SEC 33, T 3 N, R 8 E,
CLAY COUNTY, COMPLETED FEBRUARY 26, 1937

Prepared by
Illinois State Geological Survey
Urbana

TOTAL NUMBER OF PRODUCING OIL WELLS IN ILLINOIS:
JANUARY 1, 1955, APPROXIMATELY 28,500

TOTAL CUMULATIVE OIL PRODUCTION IN ILLINOIS:
JANUARY 1, 1955, 1,755,445,000 BARRELS

FOREWORD

The Division of Oil and Gas was brought into existence in 1941. It is charged by law to enforce legislation that pertains to prevention of waste and dissipation of our natural resources, and by strict enforcement of our spacing law the Division prevents the drilling of an excessive number of wells on small tracts of land. The Division acts as arbitrator through the medium of a public hearing that solves many problems among the operators, landowners, and royalty owners regarding drainage claims and drilling units.

The Division of Oil and Gas is headed by W. E. Wayland, of Danville, Illinois, Oil Conservation Supervisor, whose job it is to establish policy, select and supervise qualified personnel to carry out the duties of the Division, and to administer the State law governing the oil industry in Illinois. The staff of the Division consists of 22 oil well inspectors, seven administrative personnel. Two members of the staff have been with the Division since its inception in 1941, they are Samuel F. Peterson, Petroleum Engineer, and George R. Lane, Administrative Assistant. Mr. Peterson is concerned chiefly with the issuance of permits, handling of correspondence, and the interpretation of the rules and regulations. He acts in an advisory capacity to the Supervisor and members of the Mining Board. Mr. Lane is concerned chiefly with the management of the office, and his duties consist of supervising personnel and allocation of work thereto. He is charged with keeping all personnel records, purchasing supplies, and directs the compilation of the annual report.

The 22 oil well inspectors constitute the field personnel of the Division. Their job is to supervise the plugging of oil wells; observe proper setting and cementing of mine strings and oil strings over active mines; check the proper spacing or locations of wells; inspect salt water pits and burn-off pits for violations, and determine when salt water disposal wells should be used; check drainage areas for pollution of streams or sources of salt water pollution; inspect well sites to determine if they have been properly restored so that bonds covering the wells can be released.

Oil plays an important role in the mineral assets of the State of Illinois, ranking eighth in daily oil production among the oil producing states of the Nation. Texas, California, Louisiana, Kansas, Wyoming and New Mexico exceed Illinois in daily oil production in the order named.

Illinois oil production rose by approximately eight million barrels in 1954 to make the annual production reach approximately 67 million barrels for the year. The increase in production over 1953 was about 13½ per cent. New methods of hydraulic fracture treatment of wells are largely responsible for the increase in percentage of successful completions and number of successful workovers during 1954. Hydraulic fracture treatment shows the progress in the technical phase of the oil industry and has brought about the finding of more oil. About seven out of ten successful wells drilled in Illinois in 1954 were fracture treated. The most successful formation fracture treated was the Aux Vases.

Waterflooding is still playing an important part in the production of oil in Illinois, by means of repressuring of oil-bearing formations by the injection of water, gas, air or a combination of these agents, we have accounted for an additional three million barrels of oil during 1954 from waterflooding projects.

The oil producing counties in Illinois are Clay, Coles, Clark, Marion, Lawrence, Bond, Saline, Fayette, Crawford, White, Wayne, Hamilton, Richland, Wabash, Clinton, Jefferson, Franklin, Cumberland, Jasper, Edwards, Gallatin, Washington, Madison, Effingham, Christian, McDonough, St. Clair, Randolph, Shelby, Perry, Macoupin, Macon, Montgomery, Sangamon.

LIST OF OIL WELL INSPECTORS AND THEIR RESPECTIVE DISTRICTS

Oil well inspectors	Telephone No.	Counties served
Alva Balding, R. R. #4, Albion	22-F-4	Wayne (Township 2S-3S)
Lowell E. Bennet, R. R. #3, Martinsville	7275	Coles, Clark
George R. Bourland, Woodlawn	2301	Jefferson, Washington
Cloyd Bradham, Cisne	61-R-12	Wayne (Townships 1N-1S)
O. M. Dart, R. R. #2, Oblong	8006	Crawford
Herman Dothager, R. R. #2, Mulberry Grove	Pittsburg through Vandalia 24-R-8	Bond, Fayette, Madison
Marion Heady, 217 Sycamore Ave., Newton	270-J	Cumberland, Jasper
Charles Hixon, R. R. #1, Olney	Claremont 13-F-12	Richland
Lloyd Hortin, Box 129, Albion	207-J	Edwards, Wabash
Harry Johnson, R. R. #1, Edgewood	Farina 3711	Clay (Township 5N) Effingham, Shelby
Coleman Jones, 1605 E. Main, West Frankfort	36 or 919M	Franklin, Hamilton, Perry
W. Raymond Laws, 716 North Washington, Bridgeport	4831	Lawrence
Charles H. Johnpeter, Posey	Carlyle 2362	Clinton, St. Clair Monroe
John William Parish, R. R. #1, Salem	1731-W-2	Marion
Charles Rogers, 504 N. 20th, Herrin	22221	Alexander, Gallatin, Hardin, Jackson, Pope, Johnson, Massac, Pulaski, Randolph, Saline, Williamson
George C. Sullivan, Box 531, Grayville	8111	White
Winston Wade, R. R. #6, Paris	Chrisman 5289	Champaign, Cook, Boone, DeWitt, Douglas, Edgar, DuPage, DeKalb, Ford, Grundy, Iroquois, Kane, Kankakee, Kendall, Lake, LaSalle, Macon, Livingston, McLean, Moultrie, McHenry, Vermilion, Will, Piatt
Gaylord M. Long, R. R. #1, Taylorville	Owaneco 567	Christian, Tazewell, Knox, Logan, Mason, Mercer, Menard, Peoria, Sangamon
Eugene Weiler, Box 347, Flora	582-R	Clay (Townships 2N-3N-4N) Wayne (Townships 2N)
INSPECTOR-AT-LARGE		
Joseph Long, 211 White St., Hillsboro	880	Adams, Brown, Cass, Calhoun, Greene, Jersey, Hancock, Macoupin, Montgomery, McDonough, Morgan, Pike, Lee, Schuyler, Scott

SUMMARY BY COUNTIES OF THE NUMBER OF PERMITS ISSUED, OIL WELLS COMPLETED AND WELLS PLUGGED DURING 1954

County	Oil wells completed	Wells plugged	Number of No-Fee Permits Issued				
			Salt water disposal	Water input	Gas input	Structure tests	Water supply well
Bond	17	22					
Calhoun							
Cass							
Christian	52	97					
Clark	34	116	1	71		4	1
Clay	88	141	14	6			1
Clinton	39	87	12	5		3	
Coles	2	8		23			
Crawford	105	214	3	157		2	7
Cumberland	17	45		28	1		
Edgar	2	15	1			12	
Edwards	24	48	1	2			
Effingham	14	26	2	4			
Fayette	11	19	1	148		9	1
Franklin	20	16	1	4			2
Fulton							
Gallatin	63	45	1	61			
Greene		2					
Hamilton	27	65	12	12			
Hancock		1					
Hardin		1					
Jackson		4					
Jasper	33	36		6		1	
Jefferson	38	67	2				1
Jersey		4					
Johnson		1					
Kankakee		2				1	
LaSalle	1						
Lawrence	77	143	2	63		2	
Lee	1						
Livingston	1	3					
McDonough	2	7					
Macon	12	40				23	
Macoupin	1	14					
Madison	7	50	3			2	
Marion	73	108	8	92			
Mercer		2					
Monroe						6	
Montgomery		9					
Morgan	4	6			3	3	
Moultrie	2	1				2	
Perry	1	5					
Randolph	2	10				5	
Richland	78	81	6	23			
St. Clair		14	4			17	
Saline	61	67	4	1			
Sangamon	2	19					
Schuyler		1					
Shelby		6				24	
Tazewell		1					
Vermilion		3					
Wabash	63	178	4	56		1	4
Washington	18	62	5				
Wayne	155	233	14	73	1		3
White	236	214	5	53			1
Will		3					
Williamson		2					
Total	1,383	2,364	106	888	5	117	21

Illinois produced 66,685,000 barrels of oil during 1954 or approximately 195,000 barrels daily. This represents an increase of 6,882,000 barrels over the oil production for 1953. Illinois ranks in eighth place in daily oil production among the oil producing states of the Nation. Texas, California, Louisiana, Kansas, Wyoming and New Mexico exceed Illinois in daily oil production in the order named.

A total of 5,103 permits were issued by the Oil and Gas Division, which represents an increase of 645 permits over the year 1953.

Water Supply Wells
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
CLARK COUNTY			
Ree, Inc.	Ben Emerick #WS-2	327'N 420'E SWc NW¼ NW¼ Sec. 7-10N-14W	Mississippian 1250'
CRAWFORD COUNTY			
E. Constantin, Jr.	Lamb WS-2	40'N 660'E SWc NW Sec. 2-5N-13W	Lower Pennsylvania 1200'
Shakespeare Oil Co.	*A. P. Connett #4	210'S 180'W NEc NE Sec. 19-6N-12W	Pennsylvanian 310-410'
Shakespeare Oil Co., Inc.	Midgett #2	300'S 620'E NWc SE SE Sec. 32-6N-12W frac.	Tar Springs 1100'
Shakespeare Oil Co., Inc.	Midgett WS #1	677'S 817'W NEc SW SW Sec. 33-6N-12W frac.	Tar Springs 1250'
Skiles Oil Corp.	*Dennis-Lloyd Comm. PS #1	330'N 660'E SWc NE Sec. 10-7N-12W	Mississippi 1385-95' 1430-40'
E. Constantin, Jr.	Wall #WS-2	560'S 608'W NEc SW SE Sec. 32-7N-13W	Pennsylvanian 1250'
E. Constantin, Jr.	Hurst #WS-2	660'N 660'W SEc NW NW Sec. 31-8N-12W	Lower Pennsylvanian 1300'
CLAY COUNTY			
Magnolia Petroleum Co.	Sailor Springs Unit W. F. Proj. #14-Well WSW-1 (MPCo. Martha Drake Lease)	330'S 445'E NWc SE NW Sec. 23-4N-7E	Pennsylvanian 1000'
FRANKLIN COUNTY			
Shell Oil Co.	Benton Flood Unit #1-S	80'S 140'E NWc SE¼ NW¼ Sec. 25-6S-2E	Cypress 2620'
Shell Oil Co.	Shell Etal Benton Flood Unit #149	1610'N 50'W SEc SE¼ NW¼ Sec. 25-6S-2E	Cypress
FAYETTE COUNTY			
The Carter Oil Co.	J. G. Main #3	369'N 59'W SEc SW SW Sec. 14-8N-3E	Tar Springs 1325'
JEFFERSON COUNTY			
Gulf Refining Co.	*Joel #2	360'N 360'E SWc NW NW Sec. 10-3S-4E	McClosky 2995'
WABASH COUNTY			
William H. Bass	*Gilliatt Community #D-3	40'N 620'W SEc NE¼ Sec. 13-1N-12W	Water Sand 700'
William H. Bass	Gilliatt #1-WW	300'N 630'W SEc NE¼ Sec. 13-1N-12W	Pennsylvanian 750'
J. C. Westfall	Stanley Price #1-S	90'N 20'W SEc NE¼ NE¼ SW¼ Sec. 19-1N-12W	Pennsylvanian 750'
George S. Engle	Ed. Litherland #1	40'S 100'E NWc Sec. 34-1N-12W	Glacial or Pennsylvanian 60-80'

WATER SUPPLY WELLS—Concluded
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
WAYNE COUNTY			
The Pure Oil Co.	Jordan School Unit—A. W. Powers #1	605'N 90'W SEc NE¼ SE¼ Sec. 34-2N-7E	Pennsylvanian 2000'
Deep Rock Oil Corp.	Perry Young WSW #2 (Patricia #2)	100'N 100'E SWc NE NE Sec. 31-1S-7E	Pennsylvanian
Deep Rock Oil Corp.	Perry Young WSW #1 (Patricia #1)	800'N 250'W SEc NE¼ NE¼ Sec. 31-1S-7E	Pennsylvanian
WHITE COUNTY			
The Carter Oil Co.	Stokes Unit C-429 #S-1	85'S 122'E NWc SE SW Sec. 5-6S-9E	Pennsylvanian 1500-1700'

SALT WATER DISPOSAL WELLS
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
CLARK COUNTY			
William Ramsey	*William Ramsey #2	330'S 330'W NEc SW SW Sec. 12-9N-14W	Claypool 582'
CLAY COUNTY			
National Associated Petroleum Co.	*Bible-Stoops Comm. #1	330'S 330'E NWc SW SE Sec. 11-2N-5E	Lower Tar Springs 2295-2317'
The Wiser Oil Co.	*John Daly #8	660'S 981'W NEc SW Sec. 6-2N-8E	McClosky 3056-3110'
Breuer-Robison Oil Co.	*Delphia Braden #2	990'S 990'W NEc Sec. 17-3N-3E	Weiler 2660-2673'
Milton Smith	*Wortham #1 (FW)	671'N 336'E SWc SE NE Sec. 14-3N-6E	Pennsylvanian 750'-950'
Ashland Oil & Refining Co.	*L. F. Brissenden-Borah #1	330'N 330'W SEc NW¼ SW¼ Sec. 9-3N-7E	McClosky 2955-2960'
Kingwood Oil Co.	*J. W. Duff #3	330'S 330'W NEc SW¼ Sec. 12-3N-7E	Tar Springs 2350-2405'
Calvert Drilling, Inc.	*Bemis B-3	330'S 990'E NWc SE NE Sec. 8-3N-8E	Cypress 2654-2830'
Rock Hill Oil Co.	J. W. Duff #1-D	823'N 135'E SWc Sec. 20-3N-8E	Pennsylvanian 1900-2150'
W. W. Toler Drilling Corp.	*Edgar Harris #2	330'S 330'S NWc SE¼ NE¼ Sec. 14-4N-7E	Pennsylvanian 1608-1786'
Rolla A. Conley	*Conley #2	330 S 330'E NWc NE NE Sec. 14-4N-7E	Pennsylvanian 1600-1800'
Gaurd S. Marvin	*McKnight #2 SWD	330'N 330'E SWc NE¼ SE¼ Sec. 11-4N-7E	Water Sands 2640-2650' 2690'-2700'
John R. Blythe, Inc.	*E. L. Barr #1	330'S 330'W NEc SE Sec. 10-5N-5E	Tar Springs 1520-1568'
Gulf Refining Co.	*M. Lewis #3	330'N 330'W SEc NW¼ NW¼ Sec. 13-5N-7E	Cypress 2523-2527'
J. A. MacDonnell	*McGee #1	330'S 330'W NEc SW¼ Sec. 30-5N-7E	McClosky 2838-2846'

CLINTON COUNTY			
Herman Graham	R. Koelmel #1	193′N 1084′E SWc Sec. 1-1N-1W	Devonian 2900-2918′
Tom Eron	*J. C. Dunn #2	660′S 330′E NWc NE Sec. 1-1N-1W	Devonian 2875-2900′
John C. Powell	*Lippert-Felton #1	456′N 288′W SEc NW Sec. 1-1N-1W	Devonian
Robben Oil Co.	*Maddux #1	67′S 70′E NWc SW¼ SW¼ Sec. 4-1N-3W	Tar Springs 625-770′
Robben Oil Co.	*Maddux #2	650′S 100′E NWc SW¼ SW¼ Sec. 4-1N-3W	Tar Springs 635-775′
Henry Loeb	Deters SWD #3	990′S 660′W NEc SW¼ Sec. 2-2N-3W	Tar Springs 750-800′
Thomas S. Doran	Dorries SWD #1	660′S 660′E NWc SW¼ NE¼ Sec. 6-2N-3W	Aux Vases 1030-1130′
Jet Oil Co.	*Brinkman #3	330′S 330′W NEc NW¼ NE¼ Sec. 25-1N-3W	Benoist & Aux Vases 1214-1264—1292-1386′
The Texas Co.	*C. Murphy NCT-1 Well #6	649′N 665′W SEc NE¼ Sec. 2-2N-2W	Devonian 2665-2767′
Henry Loeb	Winifred McCabe SWD #2	330′S 330′W NEc SE SE Sec. 3-2N-3W	Tar Springs 815-850′
Charles K. Stein	*Louis Stein B #1	330′N 330′E SWc Sec. 36-3N-2W	Cypress 1134-1160′
Gulf Refining Co.	E. Oelze SWD #1	82½′N 1224½′W SEc NW Sec. 3-1S-5W	Cypress 725-750′ Salem 1250-1440′ Aux Vases 925-965′
CRAWFORD COUNTY			
The Ohio Oil Co.	*J. M. Weger SWDW #14	640′S 660′E NWc Sec. 15-5N-12W	Robinson 971-988′
Affeld Oil Co.	*Legg Heirs #3	990′S 330′W NEc Frac. SE¼ Sec. 18-5N-12W	Robinson 944-1032′
The Ohio Oil Co.	*John Reynolds #3	250′S 200′W NEc SW SW Sec. 35-6N-12W	Bridgeport 925-945′
EDGAR COUNTY			
Continental Oil Co.	*H. S. Cockcroft #6	330′N 330′E SWc Sec. 1-12N-11W	Fredonia 946-949′
EDWARDS COUNTY			
Don Baines	Frank McCord #2	330′S 330′E NWc Sec. 19-2S-10E	Pennsylvanian 600—Cypress 2750′
EFFINGHAM COUNTY			
The Texas Co.	*R. W. Prather #2	330′N 330′E SWc SE NE Sec. 34-6N-5E	Pennsylvanian 1400-1410′
Indiana Farm Bureau Co., Assn.	*Vandyke #2	330′S 330′W NEc SE¼ SW¼ Sec. 24-6N-6E	McClosky 2782-2787′
FAYETTE COUNTY			
Irma Rosenthal	*Washburn #6	330′S 659′W NEc SW NW Sec. 30-6N-3E	Stein 1599-1665′
FRANKLIN COUNTY			
Artnell Company	*Phillips #3B	330′S 330′E NWc SW SW Sec. 16-5S-2E	Pennslyvanian 1730-1775′
GALLATIN COUNTY			
Calvert Drlg., Inc.	*J. P. Holland et all #1	330′S 330′E NWc SW NE Sec. 28-7S-9E	Palestine 2050-2140′

SALT WATER DISPOSAL—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
HAMILTON COUNTY			
Ora A. Oldfield	*Minnie M. York #1	330'N 330'W SEc NW SE Sec. 22-4S-7E	Aux Vases 3297-3301'
Kingwood Oil Co.	*F. Morris #4	265'N 288'W SEc NE¼ Sec. 34-5S-6E	Benoist 2942-2957'
Stewart Oil Co.—Moses and Stewart	Flannigan #4 SWD	330'S 330'E NWc NE SE Sec. 28-6S-5E	Cypress 2992-3012'
Jas. N. Hockman	*A. B. Anderson #6	330'N 990'E SWc Sec. 1-6S-6E	Lower Cypress 2813-2864'
Chris Pearson	*Grimes SWD #3	330'N 330'E SWc NW NW Sec. 2-6S-6E	Water Sands 1135-1160' 1200-1220'—1350-1370'
Tide Water Assn. Oil Co.	*W. J. Morio #1	330'S 330'E NWc NE¼ SE¼ Sec. 3-6S-6E	Cypress 2740-2750'
Stewart Oil Co.—Moses and Stewart	*Mangis #1 SWD	330'S 330'W NEc NW SE Sec. 8-6S-6E	Cypress 2860-2912'
Calvert Drlg., Inc.	*M. Cox #3	330'S 330'E NWc SE SE Sec. 8-6S-6E	Palestine 2150-2270'
Stewart Oil Co.	Russell SWD #2	330'N 378'W SEc NE NW Sec. 9-6S-6E	Cypress 832-2924'
Stewart Oil Co.—Moses and Stewart	*I. W. Russell #2 SWD	330'N 378'W SEc NE NW Sec. 9-6S-6E	Aux Vases 3078-3088'
J. D. Turner	*Johns #4	330'S 330'E NWc SW¼ SE¼ Sec. 2-7S-5E	Biehl 1797-1875'
Calvert Drilling, Inc.	*Howard #2	330'S 330'E NWc NE NW Sec. 16-7S-6E	Cypress 2864-2897'
JEFFERSON COUNTY			
The Wiser Oil Co.	*J. R. Kell #1	330'S 330'E NWc SW NE Sec. 9-1S-1E	Benoist 2061-2080'
W. H. Husmann	*Aud. Hirons #1	330'S 330'W NEc SE¼ Sec. 3-3S-2E	Aux Vases 2561-2571'
LAWRENCE COUNTY			
Big Four Oil & Gas Co.	*Cunningham-Schrader #4	330'N 330'W SEc NE Sec. 18-2N-12W	Biehl 1631-1636'
The Nation Oil Co.	*Wright #3	245'S 247'E NWc SW¼ SW¼ Sec. 28-4N-12W	Tar Springs 1270-1375'
MADISON COUNTY			
E. A. Obering	Fred Meyer #1	330'N 330'E SWc Sec. 15-3N-6W	Trenton 2354-2394'
Ashland Oil & Refining Co.	Donley A. Brooks #2-W	266'S 716'E NWc NE¼ SE¼ Sec. 10-4N-6W	Salem 1086-1100'
Ashland Oil & Refining Co.	Donley A. Brooks #5	200'N 200'E SWc SE¼ NE¼ Sec. 10-4N-6W	Cypress
MARION COUNTY			
Nick Babare	*Bertha M. Storer #2	1620'N 1085'E SWc Sec. 18-1N-1E	Devonian 2850-2890'
Dewey Stinson	*Gaston-Morgan #SW1	557'N 887'W SEc SW SW Sec. 19-1N-1E	Petro 733-800'
Calvert Drilling, Inc.	*Estel Luttrell #2	330'N 330'E SWc SW SW Sec. 10-1N-2E	Benoist 1910-2020'
Ervin Drilling Co.	*Brinkerhoff #3	330'N 330'W SEc SW SW Sec. 15-1N-2E	Waltersburgh 1240-1300'
H. J. Schlafly	*R. N. Davis #1-A	440'N 320'W SEc NW¼ NE¼ Sec. 21-1N-2E	Cypress 1788-1832'
Ashland Oil & Refining Co.	*G. W. Hiltbidal #2-"A"	330'N 330'W SEc NE SW Sec. 28-1N-2E	Benoist 1950-1990'
A. V. Stephens	*Boggs Heirs #2	330'S 330'W NEc SW SE Sec. 33-1N-2E	Cypress 1810-1870'
The Big Four Oil & Gas Co.	*Dean #2	375'N 72'W SEc SW SW Sec. 4-2N-1E	Devonian 2980'

Saline County			
Calvert Drilling, Inc.	Ben Davis "A"-4	330'S 430'W NEc NW SE Sec. 35-7S-6E	McClosky 700-2570'
Breuer-Robison Oil Co.	*J. H. Massey #1	330'N 330'W SEc NW Sec. 35-7S-6E	Hardinsburg 2390-2432'
Calvert Drilling, Inc.	Ben Davis "A" #5-SWD	372½'S 472½'W NEc NW¼ SE¼ Sec. 35-7S-6E	Pennsylvanian 700-1350'
George & Wrather Oil Co.	*W. H. Lemons #1	330'N 330'W SEc SW¼ NE¼ Sec. 2-8S-6E	Hardinsburg 2390-2400'
Richland County			
Calvert Drilling, Inc.	*Sickmier #4	330'N 336'W SEc NE SW Sec. 23-2N-10E	McClosky 3258-65'
The Pure Oil Co.	*Palmer-Taylor #2	330'N 330'E SWc SE Sec. 5-3N-9E	Cypress 2640-2720'
The Pure Oil Co.	Palmer-Taylor #SWD-1	330'N 350'W SEc SW Sec. 5-3N-9E	Cypress 2600-2750'
Calvert Drilling, Inc.	*Kenneth McVaigh #2	330'S 330'E NWc NE SE Sec. 16-2N-14W	McClosky 3076-88'
Calvert Drilling, Inc.	*Koertge A-1	330'N 660'W SEc NE¼ Sec. 30-2N-14W	McClosky 3100-3189'
Calvert Drilling, Inc.	H. E. Ridgley #5	990'S 50'E NWc NE¼ Sec. 30-2N-14W	McClosky 3155-3200'
St. Clair County			
Samuel I. Lefton, A. P. Ashner, L. H. Jonas, Erwin P. Stupp, Trustee, & F. R. Loveridge	Dyroff #3	1580'N 920'W SEc Sec. 28-1N-10W	Devonian-Silurian 250-300'
Samuel I. Lefton, A. P. Ashner, L. H. Jonas, Erwin P. Stupp, Trustee, & F. R. Loveridge	Dyroff #4	1620'N 995'W SEc Sec. 28-1N-10W	Devonian-Silurian 250-300'
Walter P. Whitlock, Trustee	Frye #8-A	1744'S 78'E NWc Sec. 34-1N-10W	Mississippi 300-350' Crevice
Sanuel Lefton, A. P. Ashner, J. H. Jones, Erwin P. Stupp, Trustee & F. R. Loveridge	*Shondy #2	652'N 426'E SWc Sec. 34-1N-10W	Trenton 600-625'
Wabash County			
William H. Bass	*H. A. Fox #3	280'S 950'E NWc Sec. 18-1N-11W	Biehl 1477-1507' (Est.)
Forest Oil Corp.	Ed Smith LO27 Allendale Pool	10'N 650'W SEc NE NE Sec. 9-1N-12W	Biehl 1470-1520' Tar Springs 1750-1850' Jordan 1530-1550'
Shell Oil Co.	*Shell-Mt. Carmel Flood Unit #1	722'N 231'E SWc Sec. 17-1S-12W	Pennsylvanian 850-861'
Collins Brothers Oil Co.	*Treece Bros. SWD #1	330'N 330'E SWc NE SW Sec. 3-1S-13W	Biehl 1740-1760'
Washington County			
Jet Oil Co.	*R. T. Hails #5	330'S 330'E NWc NE Sec. 34-1N-1W	Pennsylvanian & Mississippian 815-1414'
M. Mazzarino	*Louis Arning #2	330'N 330'W SEc NE¼ NW¼ Sec. 9-1S-1W	Cypress 1330-1390'
E. A. Obering	Hasemeier #1	200'S 40'E NWc NE SE Sec. 9-2S-2W	Lower Pennsylvanian 900-975'
E. A. Obering	*Gilbert #2	990'N 330'E SWc NW¼ Sec. 34-2S-2W	Benoist 1455-1461'
The Ohio Oil Co.	Schwind Comm. #1	650'N 466'W SEc NE¼ NW¼ Sec. 33-3S-1W	Pennsylvanian 550-720'

SALT WATER DISPOSAL—Concluded

(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
WAYNE COUNTY			
General American Oil Co. of Texas	*Orin Roush #1	330'S 330'W NEc SE¼ NE¼ Sec. 15-1N-7E	Cypress 2820-2884'
C. E. Brehm Drlg. & Prod.	*L. E. Molt Cons. #1	330'S 330'W NEc NW SW Sec. 29-1N-8E	O'Hara 3080-90'
Shakespeare Oil Co., Inc	*K. Hosselton #2	330'S 660'W NEc Sec. 22-2N-8E	McClosky 3026-3040'
Shakespeare Oil Co., Inc	*Ullom #4	330'N 330'W SEc SW¼ SE¼ Sec. 22-2N-8E	McClosky 3028-3040'
General American Oil Co. of Texas	Elizabeth Lewis #3	330'S 356'E NWc NE SE Sec. 36-2N-8E	Clore & Degonia 2065-2160' Pennsylvanian 700-1900'
General American Oil Co.	*Elizabeth Lewis #2	660'S 990'W NEc SE Sec. 36-2N-8E	Cypress 2740-2840'
Partlow & Cochonour	George A. Shannon #1	146'N 668'W SEc NW¼ NE¼ Sec. 36-2N-8E	Pennsylvanian 650-740'
The Texas Co.	*B. Talbert #B-2	330'N 668'W SEc SW SE Sec. 17-1S-6E	McClosky 3182-3186'
Slagter Producing Co.	O. H. Gray #4-D	130'S 100'W NEc SW SE Sec. 16-1S-8E	Pennsylvanian 700-800'
Joe Bander	*Marshall #3	990'S 990'W NEc SW Sec. 16-1S-8E	Cypress 2960-2992'
Lohmann-Johnson Drlg. Co., Inc.	F. A. Bobbett #1	330'S 400'W NEc Sec. 17-1S-8E	Pennsylvanian 660-750'
The Nation Oil Co.	*W. E. Lear #5	330'N 330'E SWc NW NW Sec. 26-1S-8E	Waltersburg 2440-2478'
The Pure Oil Co.	*Bradshaw-McLin Consld. #1	380'S 330'W NEc NW NE Sec. 32-1S-8E	McClosky 3291-3309'
Illinois Mid-Continent Co.	*E. H. O'Daniel #1	330'S 330'W NEc Sec. 36-2S-9E	Tar Springs 2632-2727'
WHITE COUNTY			
Ben J. Taylor & L. A. Schumacher	*Stein #1-W	330'S 330'W NEc NW SW Sec. 25-4S-9E	Pennsylvanian 1720-1810'
Gulf Refining Co.	*J. W. Carter #1	660'S 660'E NWc NE NW Sec. 18-4S-10E	Pennsylvanian 1680-1730' Degonia 2124-2174' Palestine 2250-2344'
The Texas Co.	*J. A. Jacobs #1	330'S 357'W NEc SE¼ NW¼ Sec. 5-5S-10E	Tar Springs 2472-2500'
Calvert Drlg., Inc.	*Herschel Ragsdale #1	330'N 330'W SEc NE SW Sec. 4-7S-8E	Tar Springs 2300-2370'
Gulf Refining Co.	L. S. Bayley SWD #4	330'S 330'E NWc SW SW Sec. 11-7S-9E	McClosky 3010-3038' Rosiclare 2970-2996'

GAS INPUT WELLS
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
CUMBERLAND COUNTY			
Partlow & Cochonour	R. O. Cochonour #1	50'N 163'W SEc NE NW Sec. 25-10N-10E	Pennsylvanian 720'
MORGAN COUNTY			
Panhandle Eastern Pipe Line Co.	Timmous #1-10	100'S 290'W NEc SW¼ NW¼ Sec. 10-13N-8W	St. Peter 1880-1900'
Panhandle Eastern Pipe Line Co.	Stenemeyer #2	25'N 60'W SEc NW SE Sec. 15-13N-8W	St. Peter
Panhandle Eastern Pipe Line Co.	Davidson #1	324'N 30'W SEc NW NW Sec. 23-13N-8W	St. Peter
WAYNE COUNTY			
The Pure Oil Co.	*Riggs Consolidated #2	330'S 330'E NWc NE SW Sec. 2-1N-7E	Aux Vases 2937-2960'

WATER INPUT WELLS
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
CLARK COUNTY			
Tide Water Assoc. Oil Co.	Well #J-16 Charles Brimner	10'N 20'W SEc NW SW Sec. 2-9N-14W	Casey 455-480'
Tide Water Assoc. Oil Co.	M. Winters K-16	10'N O'W SEc SW NE SW Sec. 2-9N-14w	Casey 370-425'
Froderman & Connelly	R. Bennett #W-6	475'S 445'W NEc SE Sec. 13-9N-14W	Casey 550'
Froderman & Connelly	Hubert Bennett #W-2	368'N 10'E SWc SE SE SE Sec. 13-9N-14W	Casey 535-560'
Froderman & Connelly	Grendel Bennett #W-7	5'N 5'W SEc NW NE Sec. 13-9N-14W	Pennsylvanian 425'
Froderman & Connelly	R. Bennett #W-5	514'S 45'W NEc SE Sec. 13-9N-14W	Casey 550'
Froderman & Connelly	Bennett & Jones Comm. #W-1	440'S 440'W NEc SW Sec. 13-9N-14W	Pennslyvanian 440'
Froderman & Connelly	Hubert Bennett #W-3	30'S 50'W NEc SE SE Sec. 13-9N-14W	Casey 560'
Froderman & Connelly	Rheo Bennett #W-1	526'S 5'W NEc NW SE SE Sec. 13-9N-14W	Casey 550'

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
CLARK COUNTY—Continued			
The Pure Oil Co.	J. P. Bennett #27	NWc SE NE SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #26	NWc SE SE SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #28	5′W NEc SE SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #36	445′N 5′W SEc SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #37	450′N 450′W SEc SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #38	445′N 445′E SWc SE SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #39	435′S 445′E NWc SE SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #40	435′S 445′W NEc SE SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #41	890′N 5′W SEc SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #42	450′W NE SE SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #43	440′E NWc SE SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	J. P. Bennett #44	35′N 5′W SEc SW Sec. 23-9N-14W	Upper Partlow 550′
The Pure Oil Co.	Misner Consolidated #15	205′N 240′E SWc NE SE NW Sec. 26-9N-14W	Upper Partlow 550′
The Pure Oil Co.	Misner Consolidated #16	240′S 240′E NWc SE SE NW Sec. 26-9N-14W	Upper Partlow 550′
The Pure Oil Co.	T. H. Bennett-A #2	5′W SEc NE NE NW Sec. 26-9N-14W	Upper Partlow 550′
The Pure Oil Co.	Misner Consolidated #22	5′S 15′W NEc SE NW Sec. 26-9N-14W	Upper Partlow 550′
D. W. Franchot & Co.	Gard W-10	440′N 440′E SWc NE¼ NW¼ Sec. 4-10N-14W	Casey 350′
D. W. Franchot & Co.	*C. Elliott W-11 (Formerly Elliott W-1)	440′N 9′W SEc NW¼ NW¼ Sec. 4-10N-14W	Casey 350′
D. W. Franchot	Gard W-12	440′S O′E NWc NE NW Sec. 4-10N-14W	Casey 350′
D. W. Franchot & Co.	Gard W-13	440′S 440′E NWc NE¼ NW¼ Sec. 4-10N-14W	Casey 350′
D. W. Franchot	Gard W-14	30′S 440′E NWc NE¼ NW¼ Sec. 4-10N-14W	Casey 350′
Oil Research, Inc.	Emerich #WW-3	170′S 340′E NWc SW NW Sec. 7-10N-14W	Mississippian 1200′
Forest Oil Corp.	B. Smith JO-8 Casey Pool	225′N 10′E SWc NE¼ SE¼ NW¼ Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	B. Smith JO-9 Casey Pool	250′S 10′E NWc SE¼ SE¼ NW¼ Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	B. Smith KO-8 Casey Pool	225′N 40′W SEc NE¼ SE¼ NW¼ Sec. 14-10N-14W	Casey 400-500′
Forest Oil Co.	Everett R. Smith Unit Lease KO-9 Casey Pool	250′S 120′E NWc SW¼ SW¼ NE¼ Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	Charles D. Smith Lease KO-11 Casey Pool	120′N 120′E SWc NW¼ NW¼ SE¼ Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	Ed Whitehead	150′N 5′W SEc NE NE SW Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	Ed Whitehead KO-10	140′S 30′W NEc SW Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	Ed Whitehead JO 11	150′N 210′E SWc NE NE SW Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	Ed Whitehead HO 11	140′N 230′W SEc NW NE SW Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	B. Smith HO 10	100′S 10′E NWc NE NE SW Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	Ed Whitehead Goll	140′N 50′E SWc NW NE SW Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	McDaniels GO 10	120′S 10′W NEc NW SW Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	McDaniels FO 11	220′N 240′E SWc NE NW SW Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	McDaniels EO 11	220′N 210′W SEc NW NW SW Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	McDaniels EO 10	5′S 460′E NWc SW Sec. 14-10N-14W	Casey 400-500′
Forest Oil Corp.	Wm. Deahl AO-7 Casey Pool	40′S 70′E NWc SE NE Sec. 15-10N-14W	Casey 400-500′
Forest Oil Corp.	McIntosh-Lacey Unit #AO 10	1′S 1′E NWc NW NE SE Sec. 15-10N-14W	Casey 400-500′
Forest Oil Corp.	McIntosh-Lacey Unit #BC 10	1′S 440′E NWc NE SE Sec. 15-10N-14W	Casey 400-500′

Forest Oil Corp	McIntosh-Lacey Unit #CC 10	1'S 210'E NWc NE NE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Co	McIntosh-Lacey Unit #DO-10	1'S 1'W NEc SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Leroy Hartman Heirs #AO-11	1'S 1'E NWc SW NE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Leroy Hartman Heirs #BC-11	1'S 440'E NWc SW NE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Leroy Hartman Heirs #CO-11	1'S 210'E NWc SE NE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Leroy Hartman Heirs #DO-11 Casey Pool	1'S 1'W NEc SE NE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Leroy Hartman Heirs #AO-13	1'N 1'E SWc SW NE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Leroy Hartman Heirs #AO-15	1'N 1'E SWc NW SE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Leroy Hartman Heirs #BO-15	1'N 440'E SWc NW SE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Leroy Hartman Heirs #CO-15	1'N 210'E SWc NE SE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Margaret Keeler #AO-16	1'N 1'E SWc SE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Margaret Keeler #BO-16	1'N 440'E SWc SE SE Sec. 15-10N-14W	Casey 400-500'
Forest Oil Corp	Margaret Keeler #CO-16	1'N 210'E SWc SE SE SE Sec. 15-10N-14W	Casey 400-500'
H. J. Blazer	Stratton #1	990'N 393'E SWc NE NW Sec. 35-10N-14W	Casey 500-550'
D. W. Franchot & Co	Ely esta Elliott W-15	30'N O'E SWc SE¼ SW¼ Sec. 33-11N-14W	Casey 350'
H. J. Blazer	Stratton #6	510'S NWc NE NW Sec. 35-10N-14W	Casey 490-550'
H. J. Blazer	*Stratton #7	360'S 40'E NWc NE¼ Sec. 35-10N-14W	Casey
H. J. Blazer	Stratton #2 WI	440'S 440'W NEc NW Sec. 35-10N-14W	Casey 500-550'
H. J. Blazer	Stratton #5	440'N SWc NW¼ NE¼ Sec. 35-10N-14W	Casey 490-550'
H. J. Blazer	John E. Ulrey #3	444'W NEc NE¼ NE¼ NW¼ Sec. 35-10N-14W	Casey
H. J. Blazer	Stratton Input #4	440'N 440'W SEc NE¼ NW¼ Sec. 35-10N-14W	Casey 490-550'
States Oil Co	Sharp #W-10	10'S 660'W NEc NW NE Sec. 26-10N-14W	Casey
CLAY COUNTY			
The Pure Oil Co	*Bunn Cons. #1	660'S 330'W NEc NW NW Sec. 16-2N-8E	NeClosky 3002-3020'
Phillips Petroleum Co	*West Kenner W-8 (Formerly West Kenner #24)	330'N 330'E SWc SE¼ NE¼ Sec. 23-3N-5E	Cypress 2558-2640'
Phillips Petroleum Co	West Kenner W-7 (Formerly West Kenner #17)	330'N 330'E SWc NE¼ Sec. 23-3N-5E	Cypress 2553-2635'
Phillips Petroleum Co	*West Kenner W-10 (Formerly West Kenner #20)	330'S 330'W NEc NW¼ SE¼ Sec. 23-3N-5E	Cypress 2560-2648'
W. C. McBride, Inc	*F. Phillips #1	330'N 330'W SEc NW¼ SW¼ Sec. 2-3N-7E	Cypress 2576-2593'
John W. Sanders	*Stallings #2	330'N 990'W SEc SW Sec. 26-3N-8E	McClosky 2953-2966'
CLINTON COUNTY			
H. S. Woodard, Sr., Trust	Gross 1-15	50'N 30'W SEc SW Sec. 5-1N-3W	Cypress 1000-1100'
H. S. Woodard, Sr., Trust	Gross 1-13	30'W NEc SE SW Sec. 5-1N-3W	Cypress 1000-1100'
Robben Oil Co	Robben 1-14	30'E NWc SW SW SE Sec. 5-1N-3W	Cypress 1000-1100'
Robben Unit Water Flood	Christian-Robben Farm 1 #7	50'N 9'E SWc SE¼ SE¼ Sec. 5-1N-3W	Cypress 1040'
Robben Unit Water Flood	Christian-Robben Farm 1 #8	50'N O'E SWc SE¼ SW¼ SE¼ Sec. 5-1N-3W	Cypress 1040'
COLES COUNTY			
Carter Oil Co	*Elizabeth Ganley #3-W	330'S 330'W NEc NW NW Sec. 2-11N-7E	Cypress 1800-1840'
Ree, Inc	C. Green #G-3A	855'S 10'E NWc NE NE Sec. 18-11N-11E	Casey 290-325'
Ree, Inc	C. Green #J-2A	463'S 650'E NWc NE NE Sec. 18-11N-11E	Casey 290-325'
Ree, Inc	Joe Perisho #F-3A	855'S 440'W NEc NW NE Sec. 18-11N-11E	Casey 290-325'
Ree, Inc	L. Green #J-3A	465'N 650'W SEc NE NE Sec. 18-11N-11E	Casey 290-325'

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
COLES COUNTY—Concluded			
The Texas Co.	*B. Tinsley #1	330'S 330'E NWc NE NE Sec. 22-12N-7E	Rosiclare 1928-1955'
The Carter Oil Co.	*R. J. Tiven #7-W	330'S 330'W NEc SE NE Sec. 35-12N-7E	Cypress 1829-1860'
The Carter Oil Co.	*R. J. Tivnen #6-W	330'N 330'E SWc SE NE Sec. 35-12N-7E	Cypress 1791-1857' Rosiclare 2005-2030'
The Carter Oil Co.	*R. J. Tivnen #3-W	330'S 330'W NEc SW NE Sec. 35-12N-7E	Cypress 1781-1845' Rosiclare 2007-2022'
The Carter Oil Co.	*R. J. Tivnen #2-W	330'N 330'E SWc NE¼ Sec. 35-12N-7E	Cypress 1805-1849' Rosiclare 2015-2019'
The Carter Oil Co.	*Henry Uphoff #3-W	330'N 330'E SWc NE¼ NE¼ Sec. 35-12N-7E	Cypress 1830-1847' Rosiclare 2011-2025'
The Carter Oil Co.	*Henry Uphoff #1-W	330'N 330'E SWc NW¼ NE¼ Sec. 35-12N-7E	Cypress 1786-1818' Rosiclare 1971-2011'
The Carter Oil Co.	*Strong-Seaman #7-W	330'S 330'W NEc SE¼ Sec. 35-12N-7E	Cypress 1807-1860' Rosiclare 2012-2028'
The Carter Oil Co.	*Strong-Seaman #3-W	330'S 330'W NEc NW¼ SE¼ Sec. 35-12N-7E	Cypress 1783-1832' Rosiclare 1994-2027'
The Carter Oil Co.	*James H. Seaman #7-W	330'S 330'W NEc SE¼ NW¼ Sec. 35-12N-7E	Cypress 1788-1822'
The Carter Oil Co.	*Henry Upoff #6-W	330'S 330'E NWc NE¼ NW¼ Sec. 35-12N-7E	Rosiclare 1938-1988'
The Carter Oil Co.	*Francis Welch #1-W	330'N 330'E SWc SE SW Sec. 35-12N-7E	Cypress 1809-1950' Rosiclare 1967-1986'
The Carter Oil Co.	*Tynan Estate #1-W	330'S 330'W NEc SW SW Sec. 35-12N-7E	Cypress 1792-1814' Rosiclare 1986-1998'
The Carter Oil Co.	*Strong-Seaman #5-W	330'N 330'E SWc NE SE Sec. 35-12N-7E	Cypress 1813-1870'
The Carter Oil Co.	*J. H. Seaman #5-W	330'S 330'W NEc NW SW Sec. 35-12N-7E	Cypress 1749-1820' Rosiclare 1953-1989'
The Carter Oil Co.	*J. H. Seaman #4-W	330'N 330'E SWc NE SW Sec. 35-12N-7E	Cypress 1789-1815' Rosiclare 1960-1992'
The Carter Oil Co.	*J. H. Seaman #2-W	355'N 330'E SWc NW SW Sec. 35-12N-7E	Cypress 1739-1788' Rosiclare 1963-2006'
The Carter Oil Co.	J. H. Seaman #13-W	330'N 330'E SWc SE NW Sec. 35-12N-7E	Cypress 1810-1850' Rosiclare 1990-2020'
CRAWFORD COUNTY			
Bradley Producing Corp.	Chas. Perkins #EE-6	660'N 20'W SEc SW NW Sec. 32-4N-12W	Kirkwood 1450-1500'
Tide Water Ass'n. Oil Co.	J. W. Lindsay LW-4	683'N 674'E SWc NE SW Sec. 16-5N-11W	Robinson 945-970'
Tide Water Ass'n. Oil Co.	Well #JW-13 Montgomery #1	20'S 675'W NEc SW¼ SW¼ Sec. 21-5N-11W	Robinson 900-927'
Tide Water Ass'n. Oil Co.	J. W. 12 W. Montgomery #2	674'S 646'E NWc SW Sec. 21-5N-11W	Robinson 895-928'
E. Constantin, Jr.	Jones #YW-25	660'N 660'E SWc NW¼ NE¼ Sec. 2-5N-13W	Pennsylvanian 900-950'
E. Constantin, Jr.	Parker UW-24	10'S 665'E NWc Sec. 2-5N-13W	Pennsylvanian 900-950'
E. Constantin, Jr.	Coulter #XW-27	660'S 30'E NWc SW¼ NE¼ Sec. 2-5N-13W	Pennsylvanian 900-950'

E. Constantin, Jr	Due #VW-26	30′S 10′E NWc SE¼ NW¼ Sec. 2-5N-13W	Pennsylvanian 900-950′
E. Constantin, Jr	Marshal #WW-25	660′N 660′E SWc NE¼ NW¼ Sec. 2-5N-13W	Pennsylvanian 900-950′
E. Constantin, Jr	Marshal #WW-26	30′N 660′E SWc NE¼ NW¼ Sec. 2-5N-13W	Pennsylvanian 900-950′
E. Constantin, Jr	Marshall #XW-25	660′N 30′W SEc NE¼ NW¼ Sec. 2-5N-13W	Pennsylvanian 900-950′
E. Constantin, Jr	Jones #XW-26	10′N 30′E SWc NW¼NE¼ Sec. 2-5N-13W	Pennslyvanian 900-950′
E. Constantin, Jr	A. O. Coulter #ZW-26	10′S 10′W NEc SW¼ NE¼ Sec. 2-5N-13W	Pennsylvanian 900-950′
E. Constantin, Jr	Lamb #VW-27	660′S 10′W NEc SW¼ NW¼ Sec. 2-5N-13W	Pennsylvanian 900-950′
E. Constantin, Jr	Parker #VW-25	660′N 10′W SEc NW¼ NW¼ Sec. 2-5N-13W	Pennsylvanian 900-950′
Shakespeare Oil Co., Inc	*Wm. M. Eagleton #2 WW	316′N 250′E SWc Sec. 17-6N-12W	Robinson 900-1000′
Shakespeare Oil Co., Inc	*A. P. Connett #2 WW	205′N 231′W SEc NE NE Sec. 19-6N-12W	Pennsylvanian 900-1000′
Shakespeare Oil Co., Inc	*Connett #9	225′S 615′W NEc NW¼ NW¼ Sec. 20-6N-12W	Robinson 1000′
Shakespeare Oil Co., Inc	*Culp #5	200′N 545′W SEc SW SW Sec. 33-6N-12W	Robinson 986-1015′
Partlow & Cochonour	John Rich #W2	405′S 840′W NEc SE SE Sec. 35-6N-12W	Robinson 1000-1050′
Partlow & Cochonour	Mary Rich #W-1	379′N 241′E SWc NE SE Sec. 35-6N-12W	Robinson 1100′
Partlow & Cochonour	Mary Rich W-2	375′S 425′W NEc SE SE Sec. 35-6N-12W	Robinson 1000-1050′
Partlow & Cochonour	John Rich #W-1	778′S 431′W NEc SE SE Sec. 35-6N-12W	Robinson 1100′
The Ohio Oil Co	Robt. Keeley #WI-1	660′S 660′E NWc NE Sec. 8-6N-13W	Robinson 900-1000′
Mahutska Oil Co	M. E. Bond FW-3	970′N 28′W SEc SW¼ Sec. 10-6N-13W	Robinson 930-950′
Mahutska Oil Co	Christian Shire #FW-4	450′N 28′E SWc SE¼ Sec. 10-6N-13W	Robinson 930-950′
Mahutska Oil Co	J. Shire #JW-5	70′N 50′E SWc SE SE Sec. 10-6N-13W	Robinson
Mahutska Oil Co	J. Shire #HW-4	432′N 439′W SEc SW SE Sec. 10-6N-13W	Robinson 910-940′
Mahutska Oil Co	Shire GW-5	44′N 524′E SWc NE¼ Sec. 10-6N-13W	Robinson 915-950′
Mahutska Oil Co	J. Shire #JW-3	416′S 25′E NWc SE SE Sec. 10-6N-13W	Robinson 900-925′
Mahutska Oil Co	J. Shire #JW-4	468′N 22′E SWc SE SE Sec. 10-6N-13W	Robinson 900-930′
Mahutska Oil Co	J. Shire #LW-4	396′N 454′W SEc Sec. 10-6N-13W	Robinson 900-935′
Mahutska Oil Co	J. Shire #KW-4	390′N 425′E SWc SE SE Sec. 10-6N-13W	Robinson 900-930′
Tide Water Ass. Oil Co	M. Birch #1-OW-6	35′E SWc NW NE NW Sec. 14-6N-13W	Robinson 880-950′
Tide Water Ass. Oil Co	*M. Birch #1-NW-6	672′S 660′E NWc Sec. 14-6N-13W	Robinson 919-955′
Tide Water Ass. Oil Co	*M. Birch #1-NW-6A (Formerly #14)	50′S 88′E NWc SE NW NW Sec. 14-6N-13W	Robinson 877-897′
Tide Water Ass. Oil Co	*M. Birch #1-NW-5	40′S 660′E NWc Sec. 14-6N-13W	Robinson 879-958′
Mahutska Oil Co	Wm. Walker #HW-5	70′S 375′W NEc NW NE Sec. 15-6N-13W	Robinson 900-930′
Mahutska Oil Co	Wm. Walker #HW-6	420′S 379′W NEc NW¼ NE¼ Sec. 15-6N-13W	Robinson
Mahutska Oil Co	Wm. Walker #JW-6	405′S 22′W NEc NW¼ NE¼ Sec. 15-6N-13W	Robinson 920-950′
Mahutska Oil Co	J. Shire #JW-7	458′N 330′E SWc NE NE Sec. 15-6N-13W	Robinson
Mahutska Oil Co	Wm. Walker HW-7	836′S 408′W NEc NW NE Sec. 15-6N-13W	Robinson 915-950′
Mahutska Oil Co	J. Shire KW-7	500′N 435′E SWc NE NE Sec. 15-6N-13W	Robinson 950-990′
Mahutska Oil Co	J. Shire LW-7	437′N 428′W SEc NE NE Sec. 15-6N-13W	Robinson 950-990′
Mahutska Oil Co	J. Shire LW-6	296′S 440′W NEc Sec. 15-6N-13W	Robinson 950-990′
Mahutska Oil Co	J. Shire KW-6	274′S 383′E NWc NE NE Sec. 15-6N-13W	Robinson 950-990′
The Ohio Oil Co	Geo. P. Hopkins #V-14	660′S 660′E NWc NE¼ SW¼ Sec. 23-6N-13W	Robinson 940-1000′
Red Head Oil Producing Co	Inboden FW-14	660′N 25′W SEc SW¼ SW¼ Sec. 25-6N-13W	Robinson 900-1000′
Red Head Oil Producing Co	Inboden EW-13	20′S 660′E NWc SW¼ SW¼ Sec. 25-6N-13W	Robinson 900-975′
Red Head Oil Producing Co	Inboden #EW-15	28′N 660′E SWc Sec. 25-6N-13W	Robinson 900-1000′
Mahutska Oil Co	Weirich #DW-11	40′N 40′E SWc NW¼ Sec. 25-6N-13W	Robinson 900-975′
The Ohio Oil Co	Lucinda Smith A/C/1 #DW-13	20′N 65′E SWc NW SW Sec. 25-6N-13W	Robinson 900-975′
Mahutska Oil Co	Weirich #DW-9	40′E SWc NW¼ NW¼ Sec. 25-6N-13W	Robinson 900-975′
The Ohio Oil Co	S. Weirich #DW-10	660′N 40′W SEc NE¼ Sec. 26-6N-13W	Robinson 900-975′
The Ohio Oil Co	L. B. Wampler #ZW-12	660′S 40′E NWc SE Sec. 26-6N-13W	Robinson 900-975′
The Ohio Oil Co	C. H. Dyar #CW-9	30′N 660′E SWc NE Sec. 26-6N-13W	Robinson 900-975′

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
CRAWFORD COUNTY—Continued			
Red Head Oil Producing Co.	Ducommun #CW-13	30′S 660′E NWc SE¼ SE¼ Sec. 26-6N-13W	Robinson 900-975′
The Ohio Oil Co.	Cullison & Waggoner #AW-9	20′S 660′E NWc SW NE Sec. 26-6N-13W	Robinson 900-975′
The Ohio Oil Co.	C. H. Dyar #BW-9	20′N 20′E SWc NE NE Sec. 26-6N-13W	Robinson 900-975′
The Ohio Oil Co.	Emma Fry a/c 1 #BW-13	20′N 20′E SWc NE SE Sec. 26-6N-13W	Robinson 900-975′
The Ohio Oil Co.	Emma Fry a/c 1 #DW-12	660′S 40′W NEc SE Sec. 26-6N-13W	Robinson 900-975′
Red Head Oil Producing Co.	W. H. Ducommun #CW-15	50′N 660′W SEc Sec. 26-6N-13W	Robinson 900-1000′
Red Head Oil Producing Co.	Mitchell AW-15	40′N 560′E SWc SE Sec. 26-6N-13W	Robinson 900-1000′
W. L. Pickens	*Tohill #16	330′N 330′E SWc SE NE Sec. 28-6N-13W	Robinson 968-1004′
E. Constantin, Jr.	Hicks #QW-20	60′N 80′E SWc SE¼ NE¼ Sec. 34-6N-13W	Pennsylvanian 900-950′
E. Constantin, Jr.	Hardinsville Unit #1 (Heck) #RW-20	40′S 660′W NEc SE¼ Sec. 34-6N-13W	Pennsylvanian 900-950′
E. Constantin, Jr.	Hicks QW-21	660′N 30′W SEc NW SE Sec. 34-6N-13W	Pennsylvanian 900-950′
E. Constantin, Jr.	Kessler TW-23	660′N 10′W SEc Sec. 34-6N-13W	Pennsylvanian 900-950′
E. Constantin, Jr.	Price LW-20	34′S NWc NE SW Sec. 34-6N-13W	Pennsylvanian 900-950′
E. Constantin, Jr.	Price LW-21	660′S NWc NE SW Sec. 34-6N-13W	Pennsylvanian 900-950′
E. Constantin, Jr.	Hicks PW-20	30′S 440′E NWc SE Sec. 34-6N-13W	Pennsylvanian 900-950′
E. Constantin, Jr.	Frank Richart #VW-18	10′N 10′E SWc NE NW Sec. 35-6N-13W	Pennsylvanian 920-950′
E. Constantin, Jr.	Frank Richart #TW-18	10′N 10′E SWc NW NW Sec. 35-6N-13W	Pennsylvanian 920-950′
E. Constantin, Jr.	Frank Richart #UW-18	10′N 660′E SWc NW NW Sec. 35-6N-13W	Pennsylvanian 920-950′
The Ohio Oil Co.	C. L. Ducommun a-c 4 #BW-15	50′S 25′W NEc NW NE Sec. 35-6N-13W	Robinson 900-1000′
E. Constantin, Jr.	Hicks Heirs #VW-19	660′S 10′W NEc SW¼ NW¼ Sec. 35-6N-13W	Pennsylvanian 900-950′
E. Constantin, Jr.	Buser #UW-20	40′S 660′E NWc SW¼ Sec. 35-6N-13W	Pennsylvanian 900-950′
E. Constantin, Jr.	Buxer #TW-20	40′S 10′E NWc SW¼ Sec. 35-6N-13W	Pennsylvanian 900-950′
E. Constantin, Jr.	Marshall #WW-24	10′N 660′E SWc SE¼ SW¼ Sec. 35-6N-13W	Pennsylvanian 900-950′
The Ohio Oil Co.	C. L. Ducommun a/c 4 #ZW-16	55′S 55′E NWc NE Sec. 35-6N-13W	Robinson 900-1000′
Ralph Sears	Blanche Donaldson #WW-18	10′S 660′E NWc SE NW Sec. 35-6N-13W	Pennsylvanian 900-1000′
The Ohio Oil Co.	C. L. Ducommun a/c 4 #DW-15	50′S 50′E NWc Sec. 36-6N-13W	Robinson 900-1000′
E. Constantin, Jr.	Alva Smith #C-38	10′N 660′E SWc Sec. 7-7N-12W	Pennsylvanian 900-1000′
E. Constantin, Jr.	Alva Smith #B-37	660′N 30′E SWc Sec. 7-7N-12W	Pennsylvanian 900-1000′
W. H. Davison	Vaughn #B-38	141′S 30′E NW Sec. 18-7N-12W	Pennsylvanian 1035-1050′
Logan Oil Co.	Lester Kirk #W-1	602′N 88′W SEc SW¼ SW¼ Sec. 20-7N-12W	Pennsylvanian 840-1000′
Logan Oil Co.	Morrison #W-6	111′S 365′W NEc SE¼ SW¼ Sec. 20-7N-12W	Pennsylvanian 940-1000′
Logan Oil Co.	Morrison #W-7	472′N 651′E SWc NW Frac. ¼ Sec. 20-7N-12W	Pennsylvanian 940-1000′
Logan Oil Co.	*McComb #W-3	670′S 650′E NWc NW SW Sec. 20-7N-12W	Pennsylvanian 920-970′
Logan Oil Co.	Liken #W-6	621′N 911′W SEc SW¼ Sec. 20-7N-12W	Pennsylvanian 940-1000′
Logan Oil Co.	Liken W-4	242′N 15′E SWc SE NW Sec. 20-7N-12W	Pennsylvanian 950-1020′
Logan Oil Co.	McComb #W-2	40′S 655′E NWc SW Sec. 20-7N-12W	Robinson 920-1000′
Logan Oil Co.	Liken #W-5	220′N 427′E SWc SE NW Sec. 20-7N-12W	Pennsylvanian 950-980′
Logan Oil Co.	Morrison #W-4	777′S 400′W NEc SW Sec. 20-7N-12W	Pennsylvanian 930-970′
Arkansas Fuel Oil Corp.	McClane #W-6	30′N 413′E SWc SE SW Sec. 2-7N-13W	Robinson 1000′
Sapphire American Petroleum, Inc.	*Fred Mann N-6 (Formerly Grogan #1)	660′S 660′W NWc NW Sec. 9-7N-13W	Robinson 960-1030′
Tide Water Ass. Oil Co.	W. A. Howard RW-12	984′S 632′E NWc NE Sec. 11-7N-13W	Robinson 920-945′

Tide Water Ass. Oil Co	D. J. Culver #SW-12	318′N 10′E SWc NE NE Sec. 11-7N-13W	Robinson 940-960′
Tide Water Ass. Oil Co	W. A. Howard #PW-10	30′S O′E NWc NE NE NW Sec. 11-7N-13W	Robinson 925-950′
The Ohio Oil Co	M. D. Eaton a/c 1 #W-8	20′N 40′E SWc NW NW Sec. 13-7N-13W	Robinson 950-1000′
Kenneth C. Bell	Barrick G-4	960′N 45′W SEc Sec. 13-7N-13W	Robinson 970-1020′
The Ohio Oil Co	*M. D. Eaton a/c 1 #A-10 (old #5)	200′N 200′E SWc NW Sec. 13-7N-13W	Robinson 951-1030′
The Ohio Oil Co	*M. D. Eaton a/c 1 #B-9 (old #21)	710′N 10′W SEc SW NW Sec. 13-7N-13W	Robinson
The Ohio Oil Co	*M. D. Eaton a/c 1 #C-8 (old #25)	130′S 580′E NWc SE NW Sec. 13-7N-13W	Robinson 972-1029′
The Ohio Oil Co	*M. D. Eaton a/c 1 #C-10 (old #9)	250′N 180′E SWc SE NW Sec. 13-7N-13W	Robinson 950-1007′
The Ohio Oil Co	*M. D. Eaton a/c 1 #W-9 (old #16)	710′N 210′E SWc NW Sec. 13-7N-13W	Robinson 935-1023′
The Ohio Oil Co	*L. H. Randolph #B-11 (old #4)	240′S 180′W NEc NW SW Sec. 13-7N-13W	Robinson 945-1035′
The Ohio Oil Co	*L. H. Randolph #B-13 (old #8)	160′N 180′W SEc NW SW Sec. 13-7N-13W	Robinson 972-1021′
The Ohio Oil Co	*L. H. Randolph #W-11 (old #2)	260′S 240′E NWc SW Sec. 13-7N-13W	Robinson 985-1022′
The Ohio Oil Co	*L. H. Randolph #W-13 (old #13)	180′N 210′E SWc NW SW Sec. 13-7N-13W	Robinson 966-1030′
The Ohio Oil Co	M. D. Eaton a/c 1 #D-9	500′S 400′W NEc SE NW Sec. 13-7N-13W	Robinson 950-1000′
Tide Water Ass. Oil Co	*V. Walters #B-15 (Formerly #4)	660′S 200′W NEc SW SW Sec. 13-7N-13W	Robinson 975-1026′
Tide Water Ass. Oil Co	*V. Walters #A-14 (Formerly #2)	200′S 650′W NEc SW SW Sec. 13-7N-13W	Robinson
The Ohio Oil Co	M. D. Eaton a/c 1 #A-8	500′W SEc NW NW Sec. 13-7N-13W	Robinson
The Ohio Oil Co	M. A. Wilson, et al, #C-12	660′N 300′E SWc NE SW Sec. 13-7N-13W	Robinson 950-1000′
The Ohio Oil Co	Earl Stantz, et al, #C-14	230′S 250′E NWc SE SW Sec. 13-7N-13W	Robinson 950-1000′
The Ohio Oil Co	*W. H. Randolph #W-12 (old #4)	620′N 200′W SEc NE SE Sec. 14-7N-13W	Robinson 952-1022′
The Ohio Oil Co	*W. H. Randolph #V-13 (old #8)	200′N 620′E SWc NE SE Sec. 14-7N-13W	Robinson 985-1003′
Tide Water Ass. Oil Co	John Stahl #W-14	200′S 250′W NEc SE SE Sec. 14-7N-13W	Robinson 989-1006′
The Ohio Oil Co	L. H. Randolph #W-10	200′N 250′W SEc NE Sec. 14-7N-13W	Robinson 950-1000′
Tide Water Ass. Oil Co	*R. M. Clark #DW-15A (Formerly #10)	430′S 765′E NWc SE¼ SW¼ Sec. 18-7N-13W	Robinson 895-942′
Sapphire American Petroleum, Inc	Peter Tracy #D-2	457′N 650′W SEc NE¼ SW¼ Sec. 24-7N-13W	Robinson 890-920′
Sapphire American Petroleum, Inc	Peter Tracy #D-3	20′N 650′W SEc NE¼ SW¼ Sec. 24-7N-13W	Robinson 890-920′
Sapphire Smerican Petroleum, Inc	M. Boyd #D-4	653′S 650′W NEc SE¼ SW¼ Sec. 24-7N-13W	Robinson 890-920′
Sapphire American Petroleum, Inc	Mollie Walters #D-5	20′S 660′W NEc NW¼ Sec. 25-7N-13W	Robinson 890-920′
Sapphire American Petroleum, Inc	Mitchell Heirs #E-5	20′S 10′E NWc NE¼ Sec. 25-7N-13W	Robinson 890-920′
E. Constantin, Jr	J. A. Wood #E-14	640′S 20′W NEc SE Sec. 31-7N-13W	Pennsylvanian 900-1000′
The Ohio Oil Co	Wm. Wood #D-12	660′N 705′W SEc NE Sec. 31-7N-13W	Robinson 900-1000′
The Ohio Oil Co	Wm. Wood #E-12	660′N 20′W SEc NE Sec. 31-7N-13W	Robinson 900-1000′
The Ohio Oil Co	Wm. Wood #J-13	56′S 20′W NEc SW Sec. 32-7N-13W	Robinson 900-1000′
The Ohio Oil Co	Wm. Wood #J-14	493′N 20′W SEc NE SW Sec. 32-7N-13W	Robinson 900-1000′
The Ohio Oil Co	Wm. Wood #J-16	602′N 20′W SEc SW Sec. 32-7N-13W	Robinson 900-1000′
The Ohio Oil Co	Wm. Wood #L-13	156′S 35′W NEc NW SE Sec. 32-7N-13W	Robinson 900-1000′
E. Constantin, Jr	J. Wall #J-15	109′S 20′E NWc SW SE Sec. 32-7N-13W	Pennsylvanian 900-1000′
E. Constantin, Jr	J. Wall #K-13	265′S 660′W NEc NW SE Sec. 32-7N-13W	Pennsylvanian 900-1000′
E. Constantin, Jr	J. Wall #J-17	51′N 25′E SWc SE Sec. 32-7N-13W	Pennsylvanian 900-1000′
E. Constantin, Jr	Harry F. Dee #E-13	20′N 30′E SWc NW Sec. 32-7N-13W	Pennslyvanian 900-1000′
The Ohio Oil Co	Wm. Wood #F-14	660′N 660′W NEc NW SW Sec. 32-7N-13W	Robinson 900-1000′
The Ohio Oil Co	Wm. Wood #E-14A	272′N 40′E SWc NW SW Sec. 32-7N-13W	Robinson 900-1000′
The Ohio Oil Co	J. G. Comly #Y-15	610′S 530′W NEc SE Sec. 13-7N-14W	Robinson 950-1000′
Harry J. Adams	Williamson-Chapman #DW-6	10′S 660′W NEc SW SW Sec. 28-8N-12W	Robinson 1100′
Harry J. Adams	Spawn #EW-6	10′N 5′E SWc NE SW Sec. 28-8N-12W	Robinson 1100′
Harry J. Adams	Williamson-Chapman #FW-6	10′S 660′E NWc SE SW Sec. 28-8N-12W	Robinson 1100′
E. Constantin, Jr	Wilkin #M-20	660′S 110′W NEc SE¼ Sec. 31-8N-12W	Pennsylvanian 900-950′
E. Constantin, Jr	Wilkin #M-21	110′W SEc NE¼ SE¼ Sec. 31-8N-12W	Pennsylvanian 900-950′
E. Constantin, Jr	Wilkin #M-22	660′S 110′W NEc SE¼ SE¼ Sec. 31-8N-12W	Pennsylvanian 900-950′
The Ohio Oil Co	M. Williamson #J-19	45′S 35′E NWc NE¼ SE¼ Sec. 31-8N-12W	Robinson 930-1000′

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
CRAWFORD COUNTY—Concluded			
The Ohio Oil Co	J. W. Fawley #H-22	660'N 660'E SWc SE¼ Sec. 31-8N-12W	Robinson 930-1000'
The Ohio Oil Co	M. N. Beeman #D-21	660'E NWc SW¼ SW¼ Sec. 31-8N-12W	Robinson 930-1000'
The Ohio Oil Co	M. Williamson #K-21	640'E NWc SE¼ SE¼ Sec. 31-8N-12W	Robinson 930-1000'
The Ohio Oil Co	F. W. Lewis #H-17	440'S 320'E NWc SW NE Sec. 31-8N-12W	Robinson 900-1000'
E. Constantin, Jr	W. A. Wood #H-18	440'N 280'E SWc NE Sec. 31-8N-12W	Pennslyvanian 900-1000'
E. Constantin, Jr	Novosel #R-20	660'S 550'W NEc SW¼ Sec. 32-8N-12W	Pennsylvanian 900-950'
E. Constantin, Jr	Novosel #R-21	550'W SEc NE¼ SW¼ Sec. 32-8N-12W	Pennsylvanian 900-950'
E. Constantin, Jr	Novosel #Q-22	660'S 220'E NWc SE SW Sec. 32-8N-12W	Pennsylvanian 950-1000'
E. Constantin, Jr	Wilkin #P-22	660'S 340'W NEc SW SW Sec. 32-8N-12W	Pennsylvanian 950-1050'
E. Constantin, Jr	Wilkin #N-22	660'S 880'W NEc SW SW Sec. 32-8N-12W.	Pennsylvanian 950-1000'
CUMBERLAND COUNTY			
Forest Oil Corp	S. S. Yanaway #FO99 Flood #10	1'S 230'W NEc SW SE SW Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway #GO99 Flood #10	1'N 215'E SWc NE SE SW Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway #HO99 Flood #10	1'S 1'E NWc SW SW SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway #JO99 Flood #10	1'N 215'W SEc NW SW SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway #KO99 Flood #10	1'S 220'E NWc SE SW SE Sec. 1-10W-10E	Siggins 425-550'
Forest Oil Corp	S. S. Yanaway LO99 Siggins Flood #10	1'N 1'E SWc NW SE SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway MO99 Siggins Flood #10	1'S 230'W NEc SW SE SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway NO99 Siggins Flood #10	1'N 200'E SWc NE SE SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway HO-98 Siggins Flood #10	220'S 1'E NWc SW SE Sec. 1-10N-10E	Siggins
Forest Oil Corp	S. S. Yanaway KO-98 Siggins Flood #10	220'S 220'E NWc NE SW SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway LO98 Siggins Flood #10	220'S 1'E NWc SE SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway MO-98 Siggins Flood #10	220'S 220'W NEc NW SE SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway JO-98 Siggins Flood #10	220'S 220'W NEc NW SW SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway FO-98 Siggins Flood #10	220'S 220'W NEc NW SE SW Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway GO-98 Siggins Flood #10	220'S 220'E NWc NE SE SW Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway NO-98 Siggins Flood #10	220'S 220'E NWc NE SE SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway PO-98 Siggins Flood #10	220'S 5'W NEc SE SE Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	J. Sidwell CO-98 Siggins Flood #10	220'S 230'W NEc NW SW SW Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	J. Sidwell DO-98 Siggins Flood #10	200'S 230'E NW NE SW SW Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	S. S. Yanaway EO-98 Siggins Flood #10	200'S 1'E NWc SE SW Sec. 1-10N-10E	Siggins 425-500'
Forest Oil Corp	I. Y. Strockbine ZZO-98 Siggins Flood #10	200'S 240'W NEc NW SE Sec. 2-10N-10E	Siggins 425-500'
Forest Oil Corp	I. Y. Strockbine YYO-98 Siggins Flood #10	200'S 1'E NWc SE SE Sec. 2-10N-10E	Siggins 425-500'
Forest Oil Corp	I. Y. Strockbine BO-98 Siggins Flood #10	200'S 1'W NEc SE SE Sec. 2-10N-10E	Siggins 425-500'
Forest Oil Corp	I. Y. Strockbine AO-98 Siggins Flood #10	200'S 200'E NWc NE SE SE Sec. 2-10N-10E	Siggins 425-500'
Forest Oil Corp	H. M. Middleton AO-4 Siggins Flood #10	300'N 220'E SWc NE SE NE Sec. 11-10N-10E	Pennsylvanian 350-500'
Forest Oil Corp	H. M. Middleton AO-5	180'S 220'E NWc SE SE NE Sec. 11-10N-10E	Pennsylvanian 350-500'
Forest Oil Corp	H. M. Middleton AO-3 Siggins Flood #10	220'N 220'E SWc SE NE NE Sec. 11-10N-10E	Pennsylvanian 350-500'
Forest Oil Corp	George King PO-99 Siggins Flood #10	550'N 240'W SEc SW SW Sec. 6-10N-11E	Siggins 425-500'

EDWARDS COUNTY			
Ashland Oil & Refining Co.	*Edgar Bowen #2	660'N 330'E SWc SE Sec. 30-1N-14W	Benoist 2950-2957'
Skiles Oil Corp.	*New York Central-Broster Comm. #1	335'N 1028'E SWc NE SE Sec. 34-2S-14W	Benoist 2716-2730'
EFFINGHAM COUNTY			
Ashland Oil & Refining Co.	*Joergens Heirs "B" #2	990'N 990'W SEc SE SE Sec. 20-6N-7E	Rosiclare 2848-2851' McClosky 2863-2880'
Ashland Oil & Refining Co.	*AORCO-Ed Stortzum #4	330'S 330'E NWc SE NE Sec. 28-6N-7E	Rosiclare 2874-2882'
Ashland Oil & Refining Co.	*AORCO-M. J. Wood #6	330'S 330'E NWc NE SW Sec. 28-6N-7E	McClosky 2875-2887'
Ashland Oil & Refining Co.	*Weibking Heirs #3	330'N 330'W SEc NE NE Sec. 29-6N-7E	McClosky 2855-2860'
FAYETTE COUNTY			
Irma Rosenthal	Washburn #3	676'S 779'W NEc SE NW Sec. 30-6N-3E	Cypress 1665'
The Texas Co.	*C. A. Wright #15	330'N 330'W SEc NE NW Sec. 31-6N-3E	Tar Springs 1115-1185' Weiler 1628-1638'
The Carter Oil Co.	*Sanford Unit #4 (Formerly Carter-F. Mills #2)	330'N 330'E SWc SE Sec. 4-7N-3E	Weiler 1516-1552'
The Carter Oil Co.	*Sanford Unit #2 (Formerly Carter-F. Mills #3)	330'S 330'W NEc SW SE Sec. 4-7N-3E	Weiler 1518-1563'
The Carter Oil Co.	*Belden Unit #7 (Formerly Edith Wade #1)	125'S 199'W NEc SW SW Sec. 6-7N-3E	Weiler 1409-1475'
The Carter Oil Co.	*Belden Unit #3-W (Formerly Mary Kistler #5)	285'S 330'W NEc NW SW Sec. 6-7N-3E	Weiler 1473-1524'
The Carter Oil Co.	*Frank Quade #3-W	125'N 200'E SWc NE SW Sec. 6-7N-3E	Weiler 1416-1476'
The Carter Oil Co.	*George Paslay #4-W	330'N 330'E SWc SE SW Sec. 6-7N-3E	Weiler 1417-1460'
The Carter Oil Co.	Nora Townsend #5-W	355'S 330'W NEc NW NW Sec. 7-7N-3E	Paint Creek 1542-1576' Weiler 1492-1522'
The Carter Oil Co.	*Nora Townsend #4-W	330'S 330'W NEc NW NW Sec. 7-7N-3E	Weiler 1492-1521' Paint Creek 1565-1575'
Barron Kidd	*B. F. Owens W-1	262'S 459'W NEc SE Sec. 8-7N-3E	Cypress 1462-1500'
The Carter Oil Co.	*Harvey Durbin #5-W	330'N 990'W SEc NE Sec. 8-7N-3E	Weiler 1419-1459' Paint Creek 1419-1421'
The Carter Oil Co.	*Mary Hoar #4-W	330'N 330'E SWc NE SE Sec. 8-7N-3E	Weiler 1447-1485'
The Carter Oil Co.	*Sanford Unit #16 (Formerly Stewart-M. Sanford #1)	SW SE NW Sec. 9-7N-3E	Paint Creek 1563-1586'
The Carter Oil Co.	*Sanford Unit #14 (Formerly Carter John Durbin #1)	330'N 330'E SWc NW Sec. 9-7N-3E	Weiler 1496-1523'
The Carter Oil Co.	*Sanford Unit #8 (Formerly Carter Ola Morton #2)	330'N 330'E SWc NE NW Sec. 9-7N-3E	Weiler 1511-1546' Paint Creek 1567-1593'
The Carter Oil Co.	*Sanford Unit #11 (Formerly John Durbin #2)	330'S 330'W NEc SW NW Sec. 9-7N-3E	Weiler 1495-1535' Paint Creek 1560-1583'
The Carter Oil Co.	*E. E. Shelton #3-W	330'N 330'E SWc NW NW Sec. 9-7N-3E	Weiler 1458-1494' Paint Creek 1521-1550'
The Carter Oil Co.	Sanford Unit #6 (Formerly Carter Ola Morton #3)	330'S 330'W NEc NW Sec. 9-7N-3E	Weiler 1532-1552'

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
FAYETTE COUNTY—Continued			
Shell Oil Co.	Shell-Louden South Water Flood Unit #13-W (Formerly Shell-Smith #2)	330'N 330'E SWc SE Sec. 21-7N-3E	Cypress 1571-1577'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #1-W (Formerly Shell-Jedamski #7)	330'S 330'W NEc SW Sec. 21-7N-3E	Cypress 1554-1569'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #2-W (Formerly Shell-Jedamski #4)	990'S 990'W NEc SW Sec. 21-7N-3E	Cypress 1556-1583'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #4-W (Formerly Shell-Jedamski #8)	996'S 330'E NWc SE Sec. 21-7N-3E	Cypress 1564-1580'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #6-W (Formerly Shell-Jedamski #6)	996'N 330'W SEc SW Sec. 21-7N-3E	Cypress 1545-1583'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #9-W (Formerly Stewart-Aldrich #1)	300'N 300'E SWc Sec. 21-7N-3E	Cypress 1546-1576'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #11-W (Formerly Shell-Jedamski #2)	330'N 330'E SWc SE SW Sec. 21-7N-3E	Cypress 1564-1582'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #8-W (Formerly Stewart-Aldrich #3)	930'N 1030'E SW Sec. 21-7N-3E	Cypress 1550-1571'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #15-W (Formerly Shell-Fulton #11)	330'S 990'E NWc Sec. 28-7N-3E	Cypress 1552-1575'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #21-W (Formerly Shell-Fulton #8-A)	990'S 340'E NWc Sec. 28-7N-3E	Cypress 1543-1578'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #23-W (Formerly Shell-Van Buening #4)	990'S 990'W NEc NW Sec. 28-7N-3E	Cypress 1571-1586'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #25-W (Formerly Shell-Fulton #14)	990'N 990'E SWc NW Sec. 28-7N-3E	Cypress 1562-1579'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #33-W (Formerly Shell-Fulton #7)	330'N 330'E SWc NW Sec. 28-7N-3E	Cypress 1551-1581'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #35-W (Formerly Shell-Van Buening #3)	330'N 990'W SEc NW Sec. 28-7N-3E	Cypress
Shell Oil Co.	*Shell-Louden South Water Flood Unit #37-W (Formerly Stewart-McPheeters #2)	330'S 330'W NEc NW SW Sec. 28-7N-3E	Cypress 1565-1585'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #39-W (Formerly Stewart-McPheeters #3)	330'N 330'E SWc NW SW Sec. 28-7N-3E	Cypress 1561-1576'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #19-W (Formerly Shell-H. Milliser #1)	997'S 990'W NEc Sec. 29-7N-3E	Cypress 1538-1575'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #27-W (Formerly Shell-C. F. Fulton #6)	990'N 330'W SEc NE Sec. 29-7N-3E	Cypress 1567-1587'
Shell Oil Co.	*Shell-Louden South Water Flood Unit #29-W (Formerly Shell-C. F. Fulton #2)	993'N 983'E SWc NE Sec. 29-7N-3E	Cypress 1526-1574'

Shell Oil Co.	*Shell-Louden South Water Flood Unit #17-W (Formerly Shell-H. Milliser #4)	330'S 330'W NEc Sec. 29-7N-3E	Cypress 1531-1578'
The Texas Co.	*Q. Buff #1	330'S 330'W NEc SE SW Sec. 30-7N-3E	Weiler 1550-1574'
The Carter Oil Co.	*Ella Rhedemeyer #3-8W	60'N 25'W SEc NW SE Sec. 3-8N-3E	Weiler 1495-1510' Paint Creek 1565-1573' Bethel 1590-1602'
The Carter Oil Co.	*John McFadden #10-7W	50'S 50'W NEc SW SW Sec. 10-8N-3E	Weiler 1485-1517' Paint Creek 1581-1610'
The Carter Oil Co.	John McFadden #10-7W-T	75'S 50'W NEc SW SW Sec. 10-8N-3E	Paint Creek 1582-1610 Weiler 1485-1519'
The Carter Oil Co.	*Bob Fortner #10-6W	50'N 50'E SWc NE Sec. 10-8N-3E	Weiler 1496-1536' Paint Creek 1574-1599'
The Carter Oil Co.	*J. W. Lancaster #10-4W	50'N 50'W SEc NW NE Sec. 10-8N-3E	Weiler 1483-1515' Paint Creek 1566-1582'
The Carter Oil Co.	*J. W. Lancaster #10-2W	50'S 50'W NEc NW Sec. 10-8N-3E	Weiler 1494-1522'
The Carter Oil Co.	*Bob Fortner #10-8W	50'N 50'W SEc NW SE Sec. 10-8N-3E	Weiler 1490-1533' Paint Creek 1570-1587'
The Carter Oil Co.	*Richard Larimore #11-7W	20'N 20'W SEc NW SW Sec. 11-8N-3E	Weiler 1471-1515' Paint Creek 1551-1575'
The Carter Oil Co.	*John Sloan #11-3W	40'N 35'W SEc NW NW Sec. 11-8N-3E	Weiler 1497-1538' Paint Creek 1584-1592'
The Carter Oil Co.	*John Sloan #11-1W	50'S 50'E NWc Sec. 11-8N-3E	Weiler 1481-1523' Paint Creek 1563-1570' Bethel 1596-1620'
The Carter Oil Co.	*Nellie Wetmore #11-5W	25'N 25'E SWc NW Sec. 11-8N-3E	Weiler 1494-1533' Paint Creek 1588-1594'
The Carter Oil Co.	A. M. Wood Water Supply Well #4	75'S 90'W NEc Sec. 13-8N-3E	Tar Springs 1375'
The Carter Oil Co.	*Kagay-Grames #24-1W	50'N 50'E SWc Sec. 13-8N-3E	Weiler 1494-1538'
The Carter Oil Co.	*Cleve Reed #13-2W	50'S 50'W NEc NE NW Sec. 13-8N-3E	Weiler 1516-1550'
The Carter Oil Co.	*Frank Doty #13-6W	75'N 50'W SEc NW Sec. 13-8N-3E	Weiler 1473-1508'
The Carter Oil Co.	*Harley Stead #13-3W	50'N 50'W SEc NW NW Sec. 13-8N-3E	Weiler 1503-1534'
The Carter Oil Co.	*Kagay-Grames #13-7W	50'S 50'W NEc SW SW Sec. 13-8N-3E	Weiler 1497-1535'
The Carter Oil Co.	*A. M. Wood #13-4W	50'N 50'E SWc NE NE Sec. 13-8N-3E	Weiler 1499-1545'
The Carter Oil Co.	*Richard Larimore #14-1W	20'S 20'E NWc Sec. 14-8N-3E	Weiler 1423-1464' Paint Creek 1507-1526' Bethel 1544-1555'
The Carter Oil Co.	*Ann Hopper #14-3W	50'S 50'W NEc SW NW Sec. 14-8N-3E	Weiler 1474-1517' Bethel 1583-1593'
The Carter Oil Co.	*Catherine Cline #14-8W	50'N 50'E SWc NE SE Sec. 14-8N-3E	Weiler 1432-1481'
The Carter Oil Co.	*Lemuel Lilly #23-2W	50'N 25'E SWc SE Sec. 14-8N-3E	Weiler 1407-1478'
The Carter Oil Co.	*J. G. Main #23-1W	50'N 50'E SWc Sec. 14-8N-3E	Weiler 1464-1507' Paint Creek 1545-1552' Bethel 1571-1590'
The Carter Oil Co.	Ann Hopper #14-5W-T	80'S 95'E NWc SW Sec. 14-8N-3E	Weiler 1460-1503' Bethel 1575-1595'
The Carter Oil Co.	*Ann Hopper #14-5W	80'S 45'E NWc SW Sec. 14-8N-3E	Paint Creek 1540-1565'
The Carter Oil Co.	*Ann Hopper #14-7W	25'N 55'W SEc NW SW Sec. 14-8N-3E	Weiler 1461-1511' Bethel 1573-1595'
The Carter Oil Co.	F. B. Dove #15-6W-T	75'S 50'E NWc SE Sec. 15-8N-3E	Paint Creek 1476-1490' Weiler 1390-1431'

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
FAYETTE COUNTY—Continued			
The Carter Oil Co.	*Edith Trullinger #15-1W	50'S 50'E NWc Sec. 15-8N-3E	Weiler 1492-1524' Paint Creek 1574-1598'
The Carter Oil Co.	Leander Wood #15-7W-T	100'S 50'E NWc SE SW Sec. 15-8N-3E	Weiler 1377-1420' Paint Creek 1459-1488'
The Carter Oil Co.	*F. R. Dove #15-3W	50'N 50'E SWc NE NW Sec. 15-8N-3E	Weiler 1487-1522' Paint Creek 1558-1583'
The Carter Oil Co.	*F. R. Dove #15-6W	50'S 50'E NWc SE Sec. 15-8N-3E	Weiler 1390-1431' Paint Creek 1476-1489'
The Carter Oil Co.	*J. G. Main #15-8W	30'S 90'E NWc SE SE Sec. 15-8N-3E	Weiler 1454-1491' Paint Creek 1529-1554'
The Carter Oil Co.	*T. N. Logsdon #15-2W	25'S 44'W NEc NW Sec. 15-8N-3E	Weiler 1475-1510' Paint Creek 1555-1578'
The Carter Oil Co.	*T. N. Logsdon #15-4W	50'N SWc NE NE Sec. 15-8N-3E	Weiler 1405-1439' Paint Creek 1489-1496'
The Carter Oil Co.	*Leander Wood #15-7W	50'S 50'E NWc SE SW Sec. 15-8N-3E	Bethel 1499-1515'
The Carter Oil Co.	*Guy Smith #2-W	252'N 330'E SWc SE NE Sec. 20-8N-3E	Weiler 1488-1526' Bethel 1578-1586'
The Carter Oil Co.	*Mary Scott #3-W	330'N 360'E SWc NE NE Sec. 20-8N-3E	Weiler 1504-1525' Paint Creek 1583-1596'
The Carter Oil Co.	*Charles Knapp #2-W	330'S 300'W NEc SW NE Sec. 20-8N-3E	Weiler 1509-1536'
The Carter Oil Co.	*Tom Wright #5-W	330'S 330'W NEc SE SE Sec. 20-8N-3E	Weiler 1458-1470' Bethel 1547-1568'
The Carter Oil Co.	*Tom Wright #11-W	990'S 990'W NEc SE Sec. 20-8N-3E	Weiler 1460-1492' Bethel 1554-1578'
The Carter Oil Co.	*Tom Wright #14-W	252'S 330'W NEc NW SE Sec. 20-8N-3E	Weiler 1439-1466'
The Carter Oil Co.	*Tom Wright #9-W	990'N 330'W SEc SW SE Sec. 20-8N-3E	Weiler 1452-1485' Bethel 1552-1565'
The Carter Oil Co.	*Goldie Hedges #2-W	330'S 330'W NEc SW NW Sec. 21-8N-3E	Paint Creek 1536-1576'
The Carter Oil Co.	*Ira Boles #3-W	330'N 330'E SWc Sec. 21-8N-3E	Bethel 1470-1504'
The Carter Oil Co.	Ira Boles #8-W (Twin to Ira Boles #3-W)	405'N 330'E SWc Sec. 21-8N-3E	Aux Vases 1511-1539' (Est.)
The Carter Oil Co.	J. T. Wright #14-W	268'S 330'W NEc SW NE Sec. 21-8N-3E	Aux Vases 1631-1650 (Est.) Bethel 1599-1608 (Est.)
The Carter Oil Co.	Mary Cummings #6-W	401'N 330'E SWc NE NE Sec. 21-8N-3E	Weiler 1499-1424' Paint Creek 1562-1587' (Est.) Aux Vases 1631-1655' (Est.)
The Carter Oil Co.	Gerald Weaber #5-W	383'S 383'W NEc SE NW Sec. 21-8N-3E	Paint Creek 1535-1570' (Est.) Aux Vases 1618-1640' (Est.)
The Carter Oil Co.	*Presbyterian Church #2W	330'N 430'E SWc SE NE Sec. 21-8N-3E	Paint Creek 1539-1556'
The Carter Oil Co.	Ira Boles #21-7W-T	1445'N 50'W SEc SW SW Sec. 21-8N-3E	Paint Creek 1448-1489' Bethel 1505-1538'

The Carter Oil Co.	M. E. Hogan #21-6W-T	100'S 98'E NWc SE Sec. 21-8N-3E	Paint Creek 1495-1518' Aux Vases 1565-1596'
The Carter Oil Co.	*Myrtle Larimore #3-W	330'N 330'E SWc NW NW Sec. 21-8N-3E	Paint Creek 1541-1567'
The Carter Oil Co.	*J. T. Wright #10-W	330'S 355'W NEc SW NE Sec. 21-8N-3E	Paint Creek 1555-1579'
The Carter Oil Co.	*J. T. Wright #11-W	330'N 330'E SWc NE NW Sec. 21-8N-3E	Paint Creek 1550-1594'
The Carter Oil Co.	*Gerald Weaber #1-W	330'S 330'W NEc SE NW Sec. 21-8N-3E	Bethel 1578-1602'
The Carter Oil Co.	*Mary Cummings #3-W	330'N 355'E SWc NE NE Sec. 21-8N-3E	Bethel 1599-1611'
The Carter Oil Co.	*J. T. Wright #7-W	330'N 330'E SWc NW NE Sec. 21-8N-3E	Weiler 1492-1506' Paint Creek 1548-1571'
The Carter Oil Co.	*Ira Boles #21-5-W	44'S 27'E NWc SW Sec. 21-8N-3E	Weiler 1449-1470' Bethel 1548-1592'
The Carter Oil Co.	*M. E. Hogan #21-6-W	80'S 30'E NWc SE Sec. 21-8N-3E	Paint Creek 1479-1493' Bethel 1537-1552'
The Carter Oil Co.	*Ira Boles #21-7-W	50'N 50'W SEc NW SW Sec. 21-8N-3E	Aux Vases 1540-1564'
The Carter Oil Co.	Presbyterian Church #6-W	405'N 392'E SWc SE NE Sec. 21-8N-3E	Bethel 1585-1595' (Est.) Aux Vases 1610-1640' (Est.)
The Carter Oil Co.	*Jennie Brauer #21-8W	50'S 50'E NWc SE SE Sec. 21-8N-3E	Aux Vases 1553-1565'
The Carter Oil Co.	*Presbyterian Church #22-5W	55'N 40'W SEc NE Sec. 21-8N-3E	Bethel 1556-1573' Aux Vases 1603-1643'
The Carter Oil Co.	Jennie Brauer #21-8W-T	125'S 25'E NWc SE SE Sec. 21-8N-3E	Paint Creek 1457-1480' Aux Vases 1549-1565'
The Carter Oil Co.	Presbyterian Church #22-5W-T	130'N 70'W SEc NE Sec. 21-8N-3E	Weiler 1449-1490' Paint Creek 1525-1545'
The Carter Oil Co.	M. Williams #22-8W-T	25'N 70'E SWc NE SE Sec. 22-8N-3E	Weiler 1376-1431' Bethel 1493-1523'
The Carter Oil Co.	M. Williams #22-8W	100'N 70'E SWc NE SE Sec. 22-8N-3E	Weiler 1376-1431' Paint Creek 1456-1482'
The Carter Oil Co.	*Cynthia Hopper #22-6W	50'S 25'W NEc SW Sec. 22-8N-3E	Weiler 1372-1427' Bethel 1473-1516'
The Carter Oil Co.	Cynthia Hopper #22-7W-T	150'N 50'E SWc NE SW Sec. 22-8N-3E	Weiler 1443-1456' Paint Creek 1443-1456'
The Carter Oil Co.	M. Williams #22-4W-T	125'N 50'E SWc NE NE Sec. 22-8N-3E	Weiler 1417-1455' Bethel 1527-1560'
The Carter Oil Co.	J. B. Drees #22-3W-T	100'N 1295'E SWc NW NW Sec. 22-8N-3E	Weiler 1359-1386' Paint Creek 1440-1463' Aux Vases 1524-1529'
The Carter Oil Co.	Cynthia #22-7W-T2	75'N 50'E SWc NE SW Sec. 22-8N-3E	Bethel 2465-2495' Weiler 1389-1426'
The Carter Oil Co.	*J. B. Drees #22-3W	50'N 1270'E SWc NW NW Sec. 22-8N-3E	Bethel 1475-1492'
The Carter Oil Co.	*Emery Hopper #22-2W	75'S 75'E NWc NE Sec. 22-8N-3E	Weiler 1428-1477' Bethel 1549-1567' Paint Creek 1521-1539'
The Carter Oil Co.	*Hopper-Cummins #27-2W	50'N 20'E SEc SW Sec. 22-8N-3E	Weiler 1458-1511' Bethel 1558-1584' Paint Creek 1535-1546'
The Carter Oil Co.	*Cynthia Hopper #22-7W	50'N 50'E SWc NE SW Sec. 22-8N-3E	Weiler 1353-1426' 1464-1495'
The Carter Oil Co.	*M. Williams #22-4W	1270'S 1270'W NEc Sec. 22-8N-3E	Paint Creek 1497-1521'
The Carter Oil Co.	Bauer-Smith #23-3W-T	100'S 5'E NWc SE NW Sec. 23-8N-3E	Bethel 1595-1600'

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
FAYETTE COUNTY—Concluded			
The Carter Oil Co.	George Bauer #23-5W-T	50′N 100′E SWc NW Sec. 23-8N-3E	Weiler 1463-1505′ Bethel 1577-1590′
The Carter Oil Co.	*Earl Rhodes #23-7W	50′S 50′W NEc SW SW Sec. 23-8N-3E	Weiler 1415-1470′ Bethel 1524-1553′
The Carter Oil Co.	*E. T. Dragoo #23-4W	50′S 50′E NWc SE NE Sec. 23-8N-3E	Weiler 1479-1544′
The Carter Oil Co.	*Isabel Brooks #23-6W	50′S 50′E NWc SE Sec. 23-8N-3E	Weiler 1485-1540′
The Carter Oil Co.	*E. T. Dragoo #24-5W	25′N 25′W SEc NE Sec. 23-8N-3E	Weiler 1499-1539′
The Carter Oil Co.	*Earl Rhodes #26-1W	30′N 65′E SWc Sec. 23-8N-3E	Weiler 1409-1451′ Bethel 1522-1534′
The Carter Oil Co.	*George Bauer #23-5W	50′N 50′E SWc NW Sec. 23-8N-3E	Paint Creek 1550-1567′
The Carter Oil Co.	*Bauer-Smith #23-3W	50′S 50′E NWc SE NW Sec. 23-8N-3E	Weiler 1435-1526′
The Carter Oil Co.	J. B. Tucker #5	317′S 218′E NWc NE NW Sec. 27-8N-3E	Tar Springs 1325′
The Carter Oil Co.	J. B. Tucker #27-3W	137′N 21′E SWc NE NW Sec. 27-8N-3E	Paint Creek 1527-1535′ Bethel 1556-1579′
The Carter Oil Co.	*Bertha Williams #1-W	330′N 330′E SWc SE Sec. 27-8N-3E	Weiler 1504-1521′ Bethel 1584′ to total depth
J. P. Babcock	*Emma Rhodes #1	330′S 330′E NWc SW NW SE Sec. 27-8N-3E	Bethel 1570-1597′
J. P. Babcock	*J. L. Rhodes #1	330′S 330′E NWc SW NE SE Sec. 27-8N-3E	Paint Creek 1549-1572′ Bethel 1585-1599′
The Carter Oil Co.	*Mary Rhodes #27-4W	50′N 50′W SEc NW NE Sec. 27-8N-3E	Paint Creek 1547-1574′ Bethel 1588-1615′
The Carter Oil Co.	*Rhodes Unit #1-W (Formerly Hausmann-Truitts Hopper #4)	9′S 21′E NWc SE Sec. 27-8N-3E	Bethel 1580-1595′
The Carter Oil Co.	*Rhodes Unit #3-W (Formerly Hausmann-Truitt's Hopper #2)	9′S 544′E NWc SE Sec. 27-8N-3E	Paint Creek 1563-1570′ Bethel 1590-1606′
The Carter Oil Co.	*Rhodes Unit #5-W (Formerly Ginsburg's-Rhodes "B" #2)	39′S 70′W NEc NW SE Sec. 27-8N-3E	Paint Creek 1563-1570′ Bethel 1590-1601′
The Carter Oil Co.	*Rhodes Unit #10-W (Formerly Ginsburg's-Rhodes "A" #2)	478′S 595′W NEc NW SE Sec. 27-8N-3E	Paint Creek 1556-1566′ Bethel 1579-1603′
The Carter Oil Co.	*John Hogan #27-1W	50′S 50′E NWc Sec. 27-8N-3E	Paint Creek 1451-1457′ Bethel 1475-1499′
The Carter Oil Co.	Rosa Sealock #26-5W	50′N 50′W SEc NE Sec. 27-8N-3E	Bethel 1588-1604′ Paint Creek 1551-1574′
The Carter Oil Co.	Lydia Weaber #6-W	330′S 405′W NEc NW NW Sec. 28-8N-3E	Aux Vases 1505-1534′ (Est.)
The Carter Oil Co.	*Lydia Weaber #3-W	330′S 330′W NEc NW NW Sec. 28-8N-3E	Weiler 1396-1405′ Bethel 1455-1487′
The Carter Oil Co.	*Chas. Dial #27-5W	50′N 50′W SEc NE Sec. 28-8N-3E	Weiler 1486-151 Bethel 1568-1585′

The Carter Oil Co.	*Mae Durbin #28-4W	60'N 90'E SWc NE NE Sec. 28-8N-3E	Paint Creek 1453-1477' Bethel 1504-1520'
J. P. Babcock	*Robert McCloy #2	330'S 330'W NEc Sec. 34-8N-3E	Paint Creek 1570-1587'
J. P. Babcock	*Robert McCloy #5	330'S 330'E NWc SE NE Sec. 34-8N-3E	Paint Creek 1580-1951'
The Carter Oil Co.	*Beck-Dial #2-2W	100'N 80'W SEc SW Sec. 35-9N-3E	Weiler 1506-1536'
The Carter Oil Co.	*Mary Baker #35-8W	25'N 25'E SWc NE SE Sec. 35-9N-3E	Weiler 1510-1546'
The Carter Oil Co.	*Phillips-Wood #1-1W	80'N 25'E SWc Sec. 36-9N-3E	Weiler 1540-1564'
FRANKLIN COUNTY			
James A. Weeks	*Vinson #1	330'N 330'W SEc SW Sec. 10-7S-4E	Aux Vases 3116-3125'
James A. Weeks	*Ing #1	330'N 330'E SWc SE SE Sec. 10-7S-4E	Aux Vases 3113-3121'
James A. Weeks	*Alsup #1	75'S 433'W NEc SE NW Sec. 15-7S-4E	Aux Vases 3116-3136'
James A. Weeks	*Carter #1	330'N 330'W SEc NW NE Sec. 15-7S-4E	Aux Vases 3136-3146'
GALLATIN COUNTY			
Indiana Farm Bureau Cooperation Association, Inc.	*J. W. Oliver #2	330'N 330'E SWc NE NE Sec. 29-7S-8E	Waltersburg 2120-2130'
Sohio Petroleum Co.	*Busiek "B" W-7 (Formerly Busiek "B" #6)	Center of the NW quarter SE SW Sec. 34-7S-10E	Tar Springs 2114-2139'
Sohio Petroleum Co.	*Busiek "B" #W-11 (Formerly Busiek "B" #11)	330'N 950'E SWc Sec. 34-7S-10W	Tar Springs 2122-2137'
Sohio Petroleum Co.	*Busiek "B" #W-8	380'N 346'W SEc SW Sec. 34-7S-10E	Tar Springs 2117-2139'
J. L. Crawford	*South #21	990'N 330'E SWc SE Sec. 34-7S-10E	Tar Springs 2131-2141'
J. L. Crawford	*South #18	330'N 990'E SWc SE Sec. 34-7S-10E	Tar Springs 2130-2142'
Gulf Refining Co.	*Leonard Bahl #6	330'N 330'W SEc SW SW Sec. 15-8S-9E	Cypress 2490-2510'
Gulf Refining Co.	*Greene-Grant #1	330'N 335'W SEc NE NW Sec. 15-8S-9E	Pennsylvanian 1050'
Gulf Refining Co.	*Martin Stoll Bahl-Straub Comm. #1	330'N 330'W SEc NW SW Sec. 15-8S-9E	Cypress 2484-2515'
Gulf Refining Co.	*Skelly Schmitt #1	330'N 330'W SEc SW NW Sec. 15-8S-9E	Cypress 2496-2510'
Gulf Refining Co.	*Babare Bahl #1	330'S 330'E NWc SE SW Sec. 15-8S-9E	Cypress 2477-2491'
Gulf Refining Co.	*Martin-Stoll Bahl #1	330'N 330'W SEc NW Sec. 15-8S-9E	Cypress 2483-2513'
Gulf Refining Co.	*Skelly Schmitt #2	330'S 330'W NEc SE NW NW Sec. 15-8S-9E	Cypress 2512-2526'
Gulf Refining Co.	*Leonard Bahl #2	330'S 330'E NWc SW SW Sec. 15-8S-9E	Cypress 2482-2512'
Gulf Refining Co.	*Martin-Stoll Bahl #2	330'S 330'E NWc SE NW Sec. 15-8S-9E	Cypress 2498-2511'
Gulf Refining Co.	*Leonard Bahl #1	330'S 330'E NWc NE SW Sec. 15-8S-9E	Cypress 2485-2509'
Gulf Refining Co.	*Babare Pilot-Hish #1	330'N 330'W SEc Sec. 16-8S-9E	Cypress 2493-2516'
Natural Resources, Inc.	*Big Barn #16	330'N 330'W SEc NW SW Sec. 2-8S-10E	Cypress 2414-2425'
Natural Resources, Inc.	*Big Barn #14	330'S 330'E NWc SW SW Sec. 2-8S-10E	Cypress 2406-2418'
Natural Resources, Inc.	*Big Barn #27	330'S 330'W NEc NW NE SE Sec. 3-8S-10E	Tar Springs 2119-2131'
Natural Resources, Inc.	*Big Barn #23	330'S 330'E NWc SE Sec. 3-8S-10E	Tar Springs 2132-2146'
Natural Resources, Inc.	*Big Barn #28	330'N 330'W SEc NE SE Sec. 3-8S-10E	Cypress 2417-2429'
Natural Resources, Inc.	*Big Barn #19	330'S 330'E NWc SW SE Sec. 3-8S-10E	Tar Springs 2128-2149'
Natural Resources, Inc.	*Big Barn #17	330'S 330'W NWc SE SE Sec. 3-8S-10E	Cypress 2419-2431'
Natural Resources, Inc.	*Big Barn #25	330'N 330'W SEc NW SE Sec. 3-8S-10E	Tar Springs 2115-2136'
Natural Resources, Inc.	*Big Barn #9	330'N 330'W SEc Sec. 3-8S-10E	Cypress 2409-2423'
Natural Resources, Inc.	*Big Barn #5	330'N 330'W SEc SW SE Sec. 3-8S-10E	Tar Springs 2111-2129'
Sun Oil Co.	*J. B. Hick Well #5	330'S 330'E NWc NE SW Sec. 3-8S-10E	Tar Springs 2106-2138'
Sun Oil Co.	*J. B. Hick Well #1	330'N 330'W SEc NE SW Sec. 3-8S-10E	Tar Springs 2108-2157'
J. L. Crawford	*Smith #12	330'S 330'E NWc SE SW Sec. 3-8S-10E	Tar Springs 2099-2130'
J. L. Crawford	*South #7	990'N 990'W SEc NE Sec. 3-8S-10E	Tar Springs 2136-2142'

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
GALLATIN COUNTY—Concluded			
J. L. Crawford	*Smith #9	330'N 330'W SEc SW Sec. 3-8S-10E	Tar Springs 2106-2131'
J. L. Crawford	*South #2	330'N 990'E SWc NE Sec. 3-8S-10E	Tar Springs 2119-2141'
J. L. Crawford	*South #13	330'S 330'E NWc NE Sec. 3-8S-10E	Tar Springs 2114-2135'
J. L. Crawford	*South #10	990'S 990'E NWc NE Sec. 3-8S-10E	Tar Springs 2124-2137'
J. L. Crawford	*South #5	990'N 330'E SWc NE Sec. 3-8S-10E	Tar Springs 2120-2140'
Sohio Petroleum Co.	*Teb #W-4 (Formerly Teb #4)	990'N 330'E SW SE NW Sec. 3-8S-10E	Tar Springs 2116-2140'
Sohio Petroleum Co.	*Teb #W-2 (Formerly Teb #2)	330'N 330'W SEc NW Sec. 3-8S-10E	Tar Springs 2141-2144'
Sohio Petroleum Co.	*Teb #W-1 (Formerly Teb #1)	330'N 330'W SEc NW SW Sec. 3-8S-10E	Tar Springs 2132-2146'
Sohio Petroleum Co.	Teb #W-17 (Formerly Teb #17)	830'S 330'E NWc Sec. 3-8S-10E	Tar Springs 2119-2136'
Sohio Petroleum Co.	*Teb #W-7 (Formerly Teb #7)	330'N 330'W SEc NE NW Sec. 3-8S-10E	Tar Springs 2118-2138'
Sohio Petroleum Co.	*Teb #W-11 (Formerly Teb #11)	330'S 330'E NWc NE NW Sec. 3-8S-10E	Tar Springs 2118-2136'
Sohio Petroleum Co.	*Teb #W-9	330'N 330'W SEc SW NW Sec. 3-8S-10E	Tar Springs 2117-2131'
Sohio Petroleum Co.	Busiek "D" #W-2 (Formerly Busiek #2)	1490'S 330'W NEc Frac. NE Sec. 4-8S-10E	Tar Springs 2121-2136'
J. L. Crawford	*Smith #13	950'S 330'W NEc NW Sec. 10-8S-10E	Tar Springs 2088-2120'
J. L. Crawford	*Smith #5	900'S 330'W NEc NW Sec. 10-8S-10E	Cypress 2413-2423'
Natural Resources, Inc	*Murphy #1	330'S 330'E NWc SE NE Sec. 10-8S-10E	Cypress 2396-2409'
Natural Resources, Inc	*Big Barn #7	330'N 330'W SEc NE NE Sec. 10-8S-10E	Cypress 2401-2414'
Natural Resources, Inc	*Big Barn #2	330'N 330'W SEc NW NE Sec. 10-8S-10E	Tar Springs 2112-2133'
Natural Resources, Inc	*Big Barn #20	330'N 280'W SEc NW NE Sec. 10-8S-10E	Cypress 2414-2426'
Natural Resources, Inc	*Murphy #8	330'N 330'W SEc NE Sec. 10-8S-10E	Cypress 2382-2396'
Natural Resources, Inc	*Big Barn #26	330'N 330'E SWc NW NE NE Sec. 10-8S-10E	Cypress 2406-2421'
Natural Resources, Inc	*Browning #2	336'S 326'E NWc SE Sec. 10-8S-10E	Tar Springs 2114-2127'
Natural Resources, Inc	*Big Barn #8	330'S 330'E NWc Sec. 10-8S-10E	Tar Springs 2101-2128
Natural Resources, Inc	*Murphy #3	330'N 330'W SEc SW NE Sec. 10-8S-10E	Cypress 2395-2408'
Natural Resources, Inc	*Murphy #6	330'S 330'E NWc SW NE Sec. 10-8S-10E	Tar Springs 2096-2126'
Natural Resources Inc	*Murphy #10	330'S 380'E NWc SW NE Sec. 10-8S-10E	Cypress 2410-2420'
Natural Resources, Inc	*Browning #3	330'S 330'E NWc SE Sec. 10-8S-10E	Cypress 2398-2410'
J. L. Crawford	*Smith #1	330'N 330'W SEc NW Sec. 10-8S-10E	Tar Springs 2087-2094'
The Carter Oil Co	*Busiek-Crawford #14-K	330'S 330'E NWc SW NW Sec. 11-8S-10E	Upper Cypress 2385-2404'
The Carter Oil Co	*Busiek-Crawford #16-W	330'S 330'E NWc Sec. 11-8S-10E	Upper Cypress 2400-2424'
HAMILTON COUNTY			
The Texas Co	*J. A. Lyncy #2	330'N 330'E SWc SE SW Sec. 16-4S-7E	Aux Vases 3264-3294'
The Texas Co	*R. D. Flannigan #1	330' 330'E SWc SE Sec. 17-4S-7E	Aux Vases 3255-3284'
The Texas Co	*R. D. Flannigan #2	330'N 330'E SWc SE SE Sec. 17-4S-7E	Aux Vases 3274-3290'
The Texas Co	*J. Sneed #1	662'N 995'E SWc NE Sec. 20-4S-7E	Aux Vases 3280-3289'
The Texas Co	*Sneed Comm. #1	330'S 330'W NEc NW NW Sec. 20-4S-7E	Aux Vases 3272-3281'
The Texas Co	*G. L. Travis #3	330'S 330'W NEc SW SE Sec. 20-4S-7E	Aux Vases 3305-3322' McClosky 3430-3460'
The Texas Co	*D. S. Ledbetter #3	330'N 330'E SWc NE NW Sec. 21-4S-7E	Aux Vases 3287-3337'

The Texas Co.	*S. Minton #6	330′N 330′E SWc NW Sec. 21-4S-7E	Aux Vases 3300-3333′
Phillips Petroleum Co.	*"Angus" #4	330′S 330′E NWc SE SE Sec. 6-7S-5E	Aux Vases 3201-3212′
Phillips Petroleum Co.	*"Osborne" #1	330′S 330′W NEc NW NE Sec. 7-7S-5E	Aux Vases 3165-3190′
Phillips Petroleum Co.	*John L. Lowe et al #1	330′S 370′W NEc Sec. 7-7S-5E	Aux Vases 3195-3205′
Phillips Petroleum Co.	*Wesley Foundation #3	990′N 330′E SWc Sec. 5-7S-5E	Aux Vases 3223-3237′
JASPER COUNTY			
Sohio Petroleum Co.	*Dundas Flood Unit #W-1	330′N 330′W SEc NW Sec. 14-5N-10E	Lower O'Hara 2909-2919′
Sohio Petroleum Co.	*Dundas Flood Unit #W-2 (Formerly R. H. Wilson #1)	330′N 330′W SEc SW NE Sec. 14-5N-10E	Lower O'Hara 2909-2917′
Sohio Petroleum Co.	*Dundas Flood Unit #W-3 (Formerly Wilson-Richard Comm. #2)	330′S 330′E NWc SW NE SW Sec. 14-5N-10E	Lower O'Hara 2912-2920′
Sohio Petroleum Co.	*Dundas Flood Unit #W-4 (Formerly Kenneth Robins et al #1)	330′N 330′W SEc Sec. 14-5N-10E	Lower O'Hara 2920-2934′
The Pure Oil Co.	*J. W. McCormack #4	660′N 660′E SWc SE Sec. 19-5N-10E	McClosky 2827-40′
Gulf Refining Co.	*O. Hulse #3	330′S 330′E NWc NE SE Sec. 23-5N-10E	McClosky 2939-2947′
JEFFERSON COUNTY			
Gulf Refining Co.	*N. B. Lorance #1	330′N 330′E SWc SE SW Sec. 3-3S-4E	McClosky 3039-50′ Aux Vases 2918-31′
Gulf Refining Co.	*J. E. Eckert #1	330′S 440′E NWc NE NE Sec. 9-3S-1E	McClosky 3023-30′ Aux Vases 2902-10′
Gulf Refining Co.	*Mary Green #1	330′S 330′E NWc SW NW Sec. 10-3S-1E	McClosky 3044-50′
Gulf Refining Co.	*Joel #3	330′S 330′W NEc NW NW Sec. 10-3S-4E	Aux Vases 2895-2915′ McClosky 2026-3038′
LAWRENCE COUNTY			
Walter Duncan	*L. C. David #4	330′S 330′E NWc SW NE Sec. 8-3N-11W	Cypress 1600′
The Ohio Oil Co.	W. E. Robins a/c 1, #LL-8	723′N 54′W SEc Sec. 5-3N-12W	Kirkwood 1520-1575′
The Ohio Oil Co.	F. E. McKelfresh #DD-1	65′S 252′W NEc NW NW Sec. 5-3N-12W	Paint Creek 1450-1500′ Kirkwood 1400-1450′
The Ohio Oil Co.	W. Westall a/c #S-12	660′N 30′E SWc Sec. 17-4N-12W	Paint Creek 1440-1460′
The Ohio Oil Co.	J. H. Klingler #T-8	660′N 660′E SWc NW Sec. 17-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	J. H. Klingler #U-9	30′N SEc SW NW Sec. 17-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	M. E. Ridgley a/c 2, #T-10	633′N 660′E SWc NW SW Sec. 17-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	John Bolles a/c 2, T-9	20′S 660′E NWc SW Sec. 17-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	John Bolles a/c 2, #S-10	645′S 20′E NWc SW Sec. 17-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	Dee Vanderhoof #U-10	644′N 30′E SWc NE SW Sec. 17-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	Dee Vanderhoof #U-11	52′N 20′E SWc NE SW Sec. 17-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	W. Westall a/c 1, #U-12	660′S 20′W NEc SW SW Sec. 17-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	Perry King a/c 2, #P-9	20′S 660′E NWc SE Sec. 18-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	J. H. Klingler #Q-8	660′N SWc SE NE Sec. 18-4N-12W	Kirkwood 1350′—McClosky 1750′ Paint Creek 1450′
The Ohio Oil Co.	Perry King a/c 2, #P-10	660′S 660′E NWc SE Sec. 18-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	Perry King a/c 2, #P-11	660′E NWc SW SE Sec. 18-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	Perry King a/c 2, #P-12	660′S 660′E NWc SW SE Sec. 18-4N-12W	Kirkwood 1350-1450′
The Ohio Oil Co.	M. E. Ridgley a/c 2, #R-10	645′N 660′E SWc NE SE Sec. 18-4N-12W	Kirkwood 1350-1450′

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
LAWRENCE COUNTY—Concluded			
The Ohio Oil Co.	John Bolles a/c 2, #R-9	20'S 660'E NWc NE SE Sec. 18-4N-12W	Kirkwood 1350-1450'
The Ohio Oil Co.	J. H. Klingler #Q-9	20'N SWc SE NE Sec. 18-4N-12W	Kirkwood 1350-1450'
The Ohio Oil Co.	J. H. Klingler #S-9	20'N SEc NE Sec. 18-4N-12W	Kirkwood 1350-1450'
The Ohio Oil Co.	J. H. Klingler #P-8	660'N 660'E SWc NE Sec. 18-4N-12W	Kirkwood 1350-1450'
The Ohio Oil Co.	J. H. Klingler #Q-8	660'N SWc SE NE Sec. 18-4N-12W	Kirkwood 1350-1450'
The Ohio Oil Co.	J. H. Klingler #R-8	660'N 660'E SWc SE NE Sec. 18-4N-12W	Kirkwood 1350-1450'
The Ohio Oil Co.	J. H. Klingler #S-8	660'N 7'W SEc NE Sec. 18-4N-12W	Kirkwood 1350-1450'
The Ohio Oil Co.	John Bolles a/c 2, #Q-10	647'S 20'E NWc NE SE Sec. 18-4N-12W	Kirkwood 1350-1450'
The Ohio Oil Co.	S. E. Hazel #P-13	30'S 660'E NWc NE Sec. 19-4N-12W	Kirkwood 1350-1450'
The Ohio Oil Co.	W. L. Skiles #U-13	5'S 40'E NWc NE NW Sec. 20-4N-12W	Benoist 1550'
George & Wrather Oil Co.	Smith A. #W-9-A	220'N 100'W SEc SW NE Sec. 25-5N-13W	Benoist 1640-1670'
The Ohio Oil Co.	G. L. Miller #Q-22	660'S 35'E NWc NE NE Sec. 30-4N-12W	Kirkwood or Paint Creek 1300-1400'
The Ohio Oil Co.	Oliver Baltzell #P-23	20'S 660'W NEc SW NE Sec. 30-4N-12W	Kirkwood or Paint Creek 1300-1400'
The Ohio Oil Co.	Oliver Baltzell #Q-23	50'W NEc SW NE Sec. 30-4N-12W	Kirkwood 1300-1400'
The Ohio Oil Co.	Isaac Boyd #P-22	660'S 660'W NEc NW NE Sec. 30-4N-12W	Kirkwood or Paint Creek 1300-1400'
The Ohio Oil Co.	W. R. Crakee a/c 1, #Q-24	660'N 30'E SWc SE NE Sec. 30-4N-12W	Kirkwood or Paint Creek 1300-1400'
Bradley Producing Corp.	Chas. Perkins #DD-5	10'W NEc NW SW Sec. 32-4N-12W	Kirkwood 1450' McClosky 1600'
The Ohio Oil Co.	*J. C. Griggs a/c 1, #J-8 (old #38)	750'S 180'W NEc NW NE Sec. 32-4N-12W	Bridgeport 820-1027'
The Ohio Oil Co.	J. T. Griggs a/c 1, #K-6	635'N 685'W SEc NE Sec. 32-4N-12W	Bridgeport 850-1000'
The Ohio Oil Co.	*J. T. Griggs a/c 1, #K-7	100'S 500'E NWc SE NE Sec. 32-4N-12W	Bridgeport 900-975'
The Ohio Oil Co.	Robt. Middagh #DD-6	660'N 20'E SWc SE NW Sec. 32-4N-12W	Paint Creek 1450-1500' Kirkwood 1400-1450'
Murphy Oil Co. of Okla., Inc.	Stoltz Heirs #EE-1	40'N 413'E SWc SE SW Sec. 32-4N-12W	Kirkwood 1400' McClosky 1600-1800'
The Ohio Oil Co.	*J. T. Griggs a/c 1, #J-7 (Old oil well #41)	158'N 160'W SEc NW NE Sec. 32-4N-12W	Bridgeport 900-1027'
The Ohio Oil Co.	J. R. Middagh #F-5	20'S 450'W NEc SW Sec. 32-4N-12W	Bridgeport 950-1000'
The Ohio Oil Co.	J. T. Griggs a/c 1, #HH-6	660'N 690'E SWc NE Sec. 32-4N-12W	Paint Creek 1450-1550' Kirkwood 1400-1450'
The Ohio Oil Co.	Jas. Lewis a/c #DD-3	10'S 10'W NEc SW SW Sec. 32-4N-12W	Kirkwood 1450' McClosky 1600-1800'
The Ohio Oil Corp.	J. R. Middagh #EE-4	640'S 441'E NWc NE SW Sec. 32-4N-12W	Kirkwood 1450' McClosky 1600-1800'
Murphy Oil Co.	Stoltz Heirs #EE-3	22'N 412'E SWc NE SW Sec. 32-4N-12W	Kirkwood 1400' Paint Creek 1450-1500'
Murphy Oil Co.	Stoltz Heirs #DD-2	660'N 10'E SWc SE SW Sec. 32-4N-12W	Kirkwood 1400' Paint Creek 1450-1500'
The Ohio Oil Co.	J. E. Johnson #HH-5	30'S 690'E NWc SE Sec. 32-4N-12W	Paint Creek 1450-1550' Kirkwood 1400-1450'

The Ohio Oil Co.	J. R. Middagh #EE-2	660′N 441′E SWc SE SW Sec. 32-4N-12W	Paint Creek 1450-1500′ Kirkwood 1400-1450′
The Ohio Oil Co.	Robert Middagh #EE-5	10′N 431′E SWc SE NW Sec. 32-4N-12W	Paint Creek 1450-1500′ Kirkwood 1400-1450′
George & Wrather Oil Co.	Smith-Johnson #W-20	600′N 330′W SEc NE SE Sec. 25-5N-13W	Benoist 1650-1670′
George & Wrather Oil Co.	Nuttall #W-12	385′S 385′E NWc SW Sec. 25-5N-13W	Benoist 1610-1640′
George & Wrather Oil Co.	Nuttall #W-13	50′S 1570′E NWc SW Sec. 25-5N-13W	Benoist 1610-1640′
George & Wrather Oil Co.	*Smith-Johnson #W-20	600′N 330′W SEc NE SE Sec. 25-5N-13W	Benoist 1651-1680′
George & Wrather Oil Co.	Smith "A" #W-22	300′S 300′E NWc SW SW Sec. 25-5N-13W	Benoist 1620-1650′
George & Wrather Oil Co.	Smith "A" #W-27	365′N 330′W SEc SW SW Sec. 25-5N-13W	Benoist 1620-1650′
George & Wrather Oil Co.	Roderick #W-26	330′N 330′W SEc Sec. 26-5N-13W	Benoist 1610-1650′
George & Wrather Oil Co.	Roderick #W-21	360′S 360′E NWc NW SE SE Sec. 26-5N-13W	Benoist 1620-1650′
George & Wrather Oil Co.	N. J. Updike "D" #W-36	330′N 360′W SEc NE NE Sec. 35-5N-13W	Benoist 1620-1650′
George & Wrather Oil Co.	S. S. Updike "C" #W-33	200′S 330′E NWc NE NW Sec. 36-5N-13W	Benoist 1615-1640′
George & Wrather Oil Co.	N. J. Updike "D" #W-37	360′N 310′W SEc NW NW Sec. 36-5N-13W	Benoist 1615-1640′
George & Wrather Oil Co.	Updike "D" #W-32	330′S 330′E NWc Sec. 36-5N-13W	Benoist 1610-1650′
MARION COUNTY			
The Texas Co.	*R. Lankford, Tract #193, Well 6	180′N 402′E SWc SW SW Sec. 4-1N-2E	McClosky 2015-2045′
The Texas Co.	City of Centralia, Tr. #152, Well #83	1170′S 455′E NWc SW Sec. 4-1N-2E	McClosky
The Texas Co.	*City of Centralia, Tr. 152, Well 76	400′S 270′E NWc Sec. 4-1N-2E	McClosky 2011-2017′
The Texas Co.	*City of Centarlia, Tr. #152, Well #90	910′S 615′E NWc Sec. 4-1N-2E	Renault 1871-1898′ Aux Vases 1975′
The Texas Co.	*City of Centralia, Tr. #152, Well #82	435′N 520′E SWc NW Sec. 4-1N-2E	Aux Vases 1935′ Renault 1842-1859′
The Texas Co.	*City of Centralia, Tr. #152, Well #80	1045′N 70′E SWc Sec. 4-1N-2E	Renault 1853-1868′ Aux Vases 1945′
The Texas Co.	*City of Centralia, Tr. #152, Well #83	1170′S 455′E NWc SW Sec. 4-1N-2E	Renault 1853-1870′ Aux Vases 1950′
The Texas Co.	*C. E. Richardson "B" Tr. #171, Well #15	435′S 520′E NWc SW Sec. 4-1N-2E	Renault 1854-1871′ Aux Vases 1950′
The Texas Co	*City of Centralia, Tr. #152, Well #52	340′S 980′E NWc Sec. 4-1N-2E	Renault 1840-1865′ Aux Vases 1950′
The Texas Co.	*City of Centralia, Tr. #152, Well #54	1275′S 530′W NEc Sec. 5-1N-2E	McClosky 2058-2072′
The Texas Co.	*C. H. Friedrich, Tr. #180, Well #13	1180′S 250′E NWc NE SW Sec. 6-1N-2E	McClosky 2058′ Renault 1881-1890′ Aux Vases 1900-1924′
The Texas Co.	*C. E. Bundy, Tr. #144, Well #12	660′N 330′E SWc NE Sec. 6-1N-2E	Aux Vases 1895′
The Texas Co.	*C. H. Friedrich, Tr. #180, Well #21	660′S 320′W NEc SW Sec. 6-1N-2E	Renault 1858-1870′ Aux Vases 1930′
The Texas Co.	*G. S. John, Tr. #143, Well #10	944′S 270′W NEc NW Sec. 6-1N-2E	Aux Vases 1965′
The Texas Co.	*C. H. Friedrich, Tr. #180, Well #22	725′N 340′W SEc SW Sec. 6-1N-2E	Aux Vases 1910′
The Texas Co.	*C. E. Bundy, Tr. #141, Well #13	330′S 330′E NWc NE Sec. 6-1N-2E	Aux Vases 1906′
The Texas Co.	*R. L. Murray, Tr. #211, Well#19	941′N 676′W SEc SW SE Sec. 7-1N-2E	Aux Vases 1875-1904′
The Texas Co.	*R. L. Murray, Tr. #221, Well #17	330′N 443′W SEc NE SW Sec. 7-1N-2E	Aux Vases 1907-1935′
The Texas Co.	*C. H. Friedrich, Tr. #180, Well #11	330′N 190′E SWc SE NW Sec. 7-1N-2E	Renault 1863-1882′ Aux Vases 1890-1916′
The Texas Co.	*C. H. Friedrich, Tr. #180, Well #23	660′S 334′W NEc NW Sec. 7-1N-2E	Renault 1824-1843′ Aux Vases 1851-1877′

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
MARION COUNTY—Continued			
The Texas Co.	*R. Fyke, Tr. #217, Well #8	395'S 77'W NEc SW Sec. 8-1N-2E	Renault 1870-1895' Aux Vases 1903-1946'
The Texas Co.	*L. Hawthorne ,Tr. #191, Well #22	220'N 330'W SEc SW NE Sec. 8-1N-2E	Renault 1894-1906' Aux Vases 1924-1969'
The Texas Co.	*W. Friedrich "B", Tr. #192, Well #19	330'S 660'E NWc SE NE Sec. 8-1N-2E	Renault 1867-1882' Aux Vases 1895-1950'
The Texas Co.	*R. Fyke, Tr. #217, Well #16	990'N 660'E SWc SE SW Sec. 8-1N-2E	Renault 1892-1907' Aux Vases 1915-1965'
The Texas Co.	*W. Freidrich "B", Tr. #192, Well #20	330'N 660'E SWc NE NE Sec. 8-1N-2E	Renault 1861-1878' Aux Vases 1894-1945'
The Texas Co.	*City of Centralia, Tr. #152, Well #46	245'S 750'E NWc Sec. 9-1N-2E	McClosky 2057-2068'
The Texas Co.	*R. Lankford, Tr. #193, Well #5	180'S 360'E NWc Sec. 9-1N-2E	Renault 1866-1882' Aux Vases 1890-1954'
The Texas Co.	*L. Burge, Tr. #224, Well #5	50'S 50'W NEc NW NE Sec. 18-1N-2E	Renault 1893-1905' Aux Vases 1914-1942'
The Texas Co.	*M. Miller, Tr. #225, Well #5	297'S 293'W NEc Sec. 18-1N-2E	Renault 1893-1905' Aux Vases 1914-1942'
The Texas Co.	*M. Young Heirs, Tr. #34, Well #40	940'N 990'W SEc SW Sec. 20-2N-2E	Aux Vases 1862-1918'
The Texas Co.	*M. Young Heirs, Tr. #34, Well #39	1047'S 992'W NEc SW Sec. 20-2N-2E	Renault 1835-1850' Aux Vases 1864-1910'
The Texas Co.	*H. T. Sweney, Tr. #32, Well #7	282'N 342'W SEc SW NW Sec. 20-2N-2E	Renault 1901-1918' Aux Vases 1923-1970'
The Texas Co.	*M. Young Heirs, Tr. #34, Well #44	305'N 1025'E SWc Sec. 20-2N-2E	Renault 1893-1908' Aux Vases 1920-1958'
The Texas Co.	*M. Young Heirs, Tr. #34, Well #26	330'S 993'E NWc SW Sec. 20-2N-2E	Renault 1895-1912' Aux Vases 1917-1967'
The Texas Co.	*D. W. Young, Tr. #26, Well #27	330'N 844'W SEc NW Sec. 21-2N-2E	Renault 1867-1887' Aux Vases 1892-1935'
The Texas Co.	*W. B. Young, Tr. #44, Well #38	330'S 854'W NEc SW Sec. 21-2N-2E	Renault 1862-1889' Aux Vases 1897-1940'
The Texas Co.	*J. H. Young, Tr. #45, Well #110	330'S 831'W NEc SE SW Sec. 21-2N-2E	Renault 1858-1875' Aux Vases 1886-1923'
The Texas Co.	*J. H. Young, Tr. #45, Well #111	235'N 982'W SEc SW Sec. 21-2N-2E	Renault 1849-1869' Aux Vases 1874-1920'
The Texas Co.	*W. B. Young, Tr. #44, Well #37	330'N 825'W SEc NE SW Sec. 21-2N-2E	Renault 1861-1880' Aux Vases 1895-1934'
The Texas Co.	*C. P. Kleinschmidt, Tr. #51, Well #8	294'N 296'E SWc NE Sec: 28-2N-2E	McClosky 2030-2050'
The Texas Co.	*J. H. Young, Tr. #46, Well #61	289'N 954'W SEc NW Sec. 28-2N-2E	McClosky 2060-2069'
The Texas Co.	*J. Chapman, Tr. #76, Well #16	315'N 386'E SWc NE SW Sec. 28-2N-2E	McClosky 2051-2055'
The Texas Co.	*J. Chapman, Tr. #76, Well #18	314'S 353'E NWc NE SW Sec. 28-2N-2E	McClosky 2058-2067'
The Texas Co.	*F. M. Lee "A", Tr. #81, Well #8	563'N 402'E SWc SE SW Sec. 28-2N-2E	McClosky 1971-1977'

The Texas Co.	*F. M. Lee "A", Tr. #81, Well #7	324'S 397'E NWc SE SW Sec. 28-2N-2E	McClosky 1967-1975'
The Texas Co.	W. Chitwood #3, Tr. #78, Well #34	330'S 276'W NEc SW Sec. 28-2N-2E	McClosky 2040-2048'
The Texas Co.	*W. O. Chitwood, Tr. #78, Well #31	310'N 375'W SEc NE SW Sec. 28-2N-2E	McClosky 2000-2006'
The Texas Co.	*J. H. Young, Tr. #46, Well #118	230'N 330'W SEc NE NW Sec. 28-2N-2E	Renault 1862-1881' Aux Vases 1887-1933'
The Texas Co.	J. H. Young #2, Tr. 46, Well #65	660'S 330'W NEc NW Sec. 28-2N-2E	McClosky 2054-2066'
The Texas Co.	*J. H. Young, Tr. #46, Well #119	230'N 330'W SEc NE SE NW Sec. 28-2N-2E	Renault 1857-1876' Aux Vases 1884-1930'
The Texas Co.	*J. H. Young, Tr. #46, Well #108	284'N 362'W SEc NW Sec. 28-2N-2E	Renault 1844-1865' Aux Vases 1869-1918'
The Texas Co.	*C. P. Kleinschmidt, Tr. #51, Well #12	1160'N 330'E SWc NE Sec. 28-2N-2E	McClosky
The Texas Co.	*F. M. Lee "A", Tr. #81, Well #17	400'N 310'W SEc SW Sec. 28-2N-2E	Renault 1821-1835' Aux Vases 1842-1888'
The Texas Co.	*F. M. Lee "A", Tr. #81, Well #15	358'S 288'W NEc SE SW Sec. 28-2N-2E	Aux Vases 1839-1890'
The Texas Co.	*W. Chitwood, Tr. #78, Well #49	361'N 286'W SEc NE SW Sec. 28-2N-2E	Renault 1826-1847' Aux Vases 1851-1900'
The Texas Co.	*W. Chitwood, Tr. #78, Well #52	258'S 326'W NEc SW Sec. 28-2N-2E	Renault 1845-1866' Aux Vases 1869-1920'
The Texas Co.	*J. H. Young, Tr. #46, Well #117	430'S 330'W NEc NW Sec. 28-2N-2E	Renault 1866-1885' Aux Vases 1891-1937'
The Texas Co.	*R. Freidrich "B", Tr. #61, Well #19	330'S 380'W NEc NW NW Sec. 29-2N-2E	Renault 1895-1911' Aux Vases 1932-1957'
The Texas Co.	*R. Freidrich "B", Tr. #61, Well #18	990'S 380'W NEc NW NW Sec. 29-2N-2E	Renault 1895-1898' Aux Vases 1910-1949'
The Texas Co.	*T. D. Stroup "B", Tr. #88, Well #26	330'S 330'E NWc SW SE Sec. 30-2N-2E	Renault 1831-1819' Aux Vases 1852-1895'
The Texas Co.	*W. Freidrich "A-3", Tr. #63, Well #30	360'N 370'W SEc NE Sec. 30-2N-2E	Renault 1866-1885' Aux Vases 1890-1925'
The Texas Co.	*W. Friedrich "A-3", Tr. #63, Well #32	920'N 330'W SEc NE Sec. 30-2N-2E	Aux Vases 1918-1962'
The Texas Co.	*T. D. Stroup "A", Tr. #67, Well #19	373'N 350'W SEc NW SE Sec. 30-2N-2E	Renault 1848-1862' Aux Vases 1869-1909'
The Texas Co.	*L. Maxwell "B", Tr. #68, Well #11	374'S 355'E NWc NE SE Sec. 30-2N-2E	Aux Vases 1872-1908'
The Texas Co.	*T. D. Stroup "A", Tr. #89, Well #23	295'N 340'W SEc SW Sec. 30-2N-2E	Renault 1803-1815' Aux Vases 1822-1857'
The Texas Co.	*A. Dempsey, Tr. #118, Well #7	327'N 365'E SWc NE SW Sec. 31-2N-2E	Renault 1826-1834' Aux Vases 1847-1866'
The Texas Co.	*A. Dempsey, Tr. #118, Well #13	181'S 926'W NEc SW Sec. 21-2N-2E	Aux Vases 1821-1835'
The Texas Co.	*E. Tate, Tr. #141, Well #27	330'N 350'W SEc SW Sec. 31-2N-2E	Aux Vases 1851-1865'
The Texas Co.	*E. Tate, Tr. #141, Well #19	252'S 200'W NEc SE SW Sec. 31-2N-2E	Renault 1797-1815' Aux Vases 1826-1846'
The Texas Co.	*W. M. Stroup, Tr. #91, Well #20	990'S 990'W NEc NW Sec. 31-2N-2E	Renault 1809-1820' Aux Vases 1829-1857'
The Texas Co.	*W. M. Stroup, Tr. #91, Well #22	181'N 1576'E SWc NW Sec. 31-2N-2E	Renault 1796-1810' Aux Vases 1819-1832'
The Texas Co.	*W. M. Stroup #91, Well #21	950'N 990'W SEc NW Sec. 31-2N-2E	Renault 1790-1808' Aux Vases 1814-1848'
The Texas Co.	*T. L. Easley, Tr. #105, Well #21	310'S 260'W NEc SE NW Sec. 33-2N-2E	Renault 1858-1875' Aux Vases 1880-1930'
The Texas Co.	*W. M. Stroup, Tr. #91, Well #19	117'S 66'W NEc NW NW Sec. 31-2N-2E	Renault 1883-1898' Aux Vases 1906-1937'

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
MARION COUNTY—Concluded			
The Texas Co.	*S. B. McCoy, Tr. #100, Well #6	375'S 320'W NEc NW Sec. 33-2N-2E	McClosky 1999-2011'
The Texas Co.	*City of Centralia, Tr. #152, Well #44	370'S 660'E NWc SE SW Sec. 33-2N-2E	Renault 1858-1878' Aux Vases 1888-1942'
The Texas Co.	*C. G. Farthing, Tr. #126, Well #10	398'N 608'E SWc NE SW Sec. 33-2N-2E	Renault 1869-1880' Aux Vases 1889-1944'
The Texas Co.	*City of Centralia, Tr. #152, Well #38	660'S 330'E NWc SE SW Sec. 33-2N-2E	Renault 1861-1872' Aux Vases 1884-1940'
The Texas Co.	*C. G. Farthing, Tr. #126, Well #8	375'S 352'E NWc NE SW Sec. 33-2N-2E	Renault 1891-1904' Aux Vases 1918-1973'
The Texas Co.	*T. L. Easley, Tr. #105, Well #18	380'N 320'E SWc SE NW Sec. 33-2N-2E	Renault 1870-1888' Aux Vases 1896-1939'
The Texas Co.	*W. A. Sands, Tr. #125, Well #6	370'S 355'E NWc SW Sec. 33-2N-2E	McClosky 2068-2078'
The Texas Co.	*A. H. Weems, Tr. #99, Well #6	1320'S 330'E NWc Sec. 33-2N-2E	McClosky 2017-2029'
The Texas Co.	*A. H. Weems, Tr. #99, Well #7	660'N 330'W SEc NW NW Sec. 33-2N-2E	McClosky 1999-2012'
The Texas Co.	*S. Shereshoveck, Tr. #107, Well #10	352'S 260'W NEc SW NW Sec. 33-2N-2E	McClosky 2006-2018'
The Texas Co.	*F. Lazaretti, Tr. #135, Well #9	330'N 400'E SWc Sec. 33-2N-2E	McClosky 2018-2026'
The Texas Co.	*F. Lazaretti, Tr. #135, Well #5	330'S 661'E NWc SW SW Sec. 33-2N-2E	McClosky 2024-2032'
The Texas Co.	*S. B. McCoy, Tr. #100, Well #10	424'S 333'W NEc NW Sec. 33-2N-2E	Renault 1815-1831' Aux Vases 1841-1886'
The Texas Co.	*S. B. McCoy, Tr. #100, Well #11	327'N 280'W SEc NE NW Sec. 33-2N-2E	Renault 1828-1839' Aux Vases 1815-1897'
The Texas Co.	*C. G. Farthing, Tr. #126, Well #5	660'S 340'E NWc NE SW Sec. 33-2N-2E	McClosky 2022-2056'
The Texas Co.	*C. E. Lloyd, Tr. #80, Well #1	146'N 300'W SEc NW NE Sec. 33-2N-2E	Benoist 1809-1857'
The Texas Co.	*C. E. Lankford, Tr. #129, Well #1	228'S 140'E NWc NE SE Sec. 33-2N-2E	Benoist 1896-1924'
The Texas Co.	*S. Shereshoveck, Tr. #107, Well #7	686'S 340'W NEc SW NW Sec. 33-2N-2E	McClosky 2012-2024'
RICHLAND COUNTY			
Ashland Oil Refining Co.	*Fred Watson #1	330'N 330'E SWc NW SE Sec. 12-2N-9E	McClosky 3120-3163'
The Pure Oil Co.	*J. C. Howard "A" #4	330'S 330'W NEc NW Sec. 13-2N-9E	McClosky 3149-63'
The Pure Oil Co.	*Martin Heirs #1 (Seminary Unit)	330'N 330'E SWc NE SW Sec. 17-2N-10E	McClosky 3181-3194'
The Pure Oil Co.	*O. C. Borah #1 (Seminary Unit)	330'S 330'E NWc NE NW Sec. 20-2N-10E	McClosky 3199-3233'
The Pure Oil Co.	C. T. Montgomery-B #13	15'N 120'E SWc NW Sec. 4-3N-9E	McClosky 2900-3000'
The Pure Oil Co.	C. T. Montgomery-B #11	45'S 80'E NWc Sec. 4-3N-9E	McClosky 2900-3000'
The Pure Oil Co.	John O. Coen #14	5'S 280'E NWc NE SW Sec. 4-3N-9E	McClosky 2900-3000'
The Pure Oil Co.	John O. Coen #45	43'N 75'E SWc Sec. 4-3N-9E	McClosky 2900-3000'
The Pure Oil Co.	Palmer-Taylor #13	45'N SEc SW SE Sec. 5-3N-9E	McClosky 2900-3000'
The Pure Oil Co.	Palmer-Taylor #14	5'S 430'W NEc NW SE Sec. 5-3N-9E	McClosky 2900-3000'
The Pure Oil Co.	C. T. Montgomery-A #6	5'S 5'W NEc NW SE Sec. 8-3N-9E	McClosky 2900-3000'
The Ohio Oil Co.	E. H. Arbuthnot #W1-1	55'S 660'E NWc Sec. 8-3N-9E	McClosky 2950-3000'
The Pure Oil Co.	Frances J. Coen-A #4	5'N 82'W SEc NE Sec. 8-3N-9E	McClosky 2900-3000'

The Pure Oil Co.	Harry Wade #4	39'N 5'E SWc SE SW Sec. 33-4N-9E	McClosky 2900-3000'
Ashland Oil & Refining Co.	*Harrell-Hunley Comm. #2	330'N 660'E SWc NE NW Sec. 35-4N-9E	McClosky & Rosiclare 2930-2949'
The Pure Oil Co.	*O. B. Wachtel #1	523'S 1035'E NWc Sec. 18 (Frac.) 4N-10E	McClosky 2944-50'
The Texas Co.	*W. E. Fritschle NCT-1 #4	330'S 330'W NEc Sec. 23-4N-10E	McClosky 3065-3072'
The Texas Co.	*W. E. Fritschle NCT #9	330'S 330'W NEc Sec. 26-4N-10E	McClosky 3068-3083'
Nathan C. Davies	*Asa Jenkins #3	330'S 330'E NWc SE Sec. 30-5N-11E	McClosky 3015-3019'
Noknil Oil Co.	*P. Von Almen #3	330'S 1610'W NEc SW Sec. 31-5N-14W	McClosky 3022-34'
Noknil Oil Co.	*P. Von Almen #1	330'N 660'E SWc NW SW Sec. 31-5N-14W	McClosky 3060-71'
Helmerich & Payne, Inc.	*Sterchi Heirs #3	330'S 2970'W NEc SW SE Sec. 31-5N-14W	McClosky 3028-3062'
Helmerich & Payne, Inc.	*Sterchi Heirs #2	330'N 660'W SEc SW Sec. 31-5N-14W	McClosky 3016-3034'
SALINE COUNTY			
The Carter Oil Co.	*Eldorado Salt Water Disposal #1 (Formerly Leo Reich #1)	330'N 330'E SWc NE Sec. 8-8S-7E	Pennsylvanian 850-1610' Palestine 1935-1962'
WABASH COUNTY			
Forest Oil Corp.	C. E. Jordan #NO-21	40'S 140'E NWc NE NW SW Sec. 3-1N-12W	Jordan 1530-1550' Biehl 1470-1520'
Forest Oil Corp.	J. H. Jordan MO-25 Allendale	10'N 50'E SWc Sec. 3-1N-12W	Jordan 1530-1550' Biehl 1470-1520'
Forest Oil Corp.	J. H. Jordan MO-23A Allendale	10'S 260'W NEc NW SW SW Sec. 3-1N-12W	Biehl 1470-1520' Jordan 1530-1550'
Forest Oil Corp.	J. H. Jordan NO-23	10'S 330'E NWc NE SW SW Sec. 3-1N-12W	Biehl 1470-1520' Jordan 1530-1550'
Forest Oil Corp.	C. E. Jordan MO-23	13'N 60'E SWc NW SW Sec. 3-1N-12W	Biehl 1470-1520' Jordan 1530-1550'
Forest Oil Corp.	C. E. Jordan MO-21 Allendale Pool	65'S 50'E NWc SW Sec. 3-1N-12W	Biehl 1470-1520' Jordan 1530-1550'
Forest Oil Corp.	C. E. Jordan PO-21 Allendale Pool	40'S 70'W NEc NW SW Sec. 3-1N-12W	Jordan
Forest Oil Corp.	Wm. Wolf HO-25 Allendale Pool	50'N 50'E SWc SE Sec. 4-1N-12W	Jordan 1530-1550' Biehl 1470-1520'
Forest Oil Corp.	R. Litherland HO-23	10'S 40'E NWc SW SE Sec. 4-1N-12W	Jordan 1530-1550' Biehl 1470-1520'
Forest Oil Corp.	R. Litherland KO-23	260'S 10'W NEc SW SE Sec. 4-1N-12W	Biehl 1470-1520' Jordan 1530-1550'
Forest Oil Corp.	H. E. Jones KO-25	100'N 10'W SEc SW SE Sec. 4-1N-12W	Biehl 1470-1520' Jordan 1530-1550'
Forest Oil Corp.	I. McMillen HO-30	830'S 10'E NWc SE Sec. 9-1N-12W	Jordan 1530-1550' Biehl 1470-1520'
Forest Oil Corp.	Caroline Smith MO-30	660'S 10'W NWc SE Sec. 9-1N-12W	Jordan 1530-1550' Biehl 1470-1520'
Forest Oil Corp.	Ed Smith HO-29	10'N 10'E SWc NE Sec. 9-1N-12W	Jordan 1530-1550' Biehl 1470-1520'
Forest Oil Corp.	Caroline Smith KO-31 Allendale Pool	10'N 1'W SEc NW SE Sec. 9-1N-12W	Jordan 1530-1550' Biehl 1470-1520'
Forest Oil Corp.	J. T. Smith PO-27 Allendale Pool	10'N 170'E SWc NE NW Sec. 10-1N-12W	Jordan 1530-1550' Biehl 1470-1520'

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
WABASH COUNTY—Concluded			
Forest Oil Corp	Jacob Smith NO-25 Allendale Pool	10'S 330'W NEc NW NW Sec. 10-1N-12W	Jordan 1530-1550' Biehl 1470-1520'
Forest Oil Corp	J. T. Smith MO-27 Allendale Pool	10'N 50'E SWc NW NW Sec. 10-1N-12W	Jordan 1530-1550' Biehl 1470-1520'
William H. Bass	Gilliatt Comm. #D-3	40'N 620'W SEc NE Sec. 13-1N-12W	Biehl 1485-1505'
William H. Bass	*Gilliatt Comm. #4	2463'N 990'W SEc Sec. 13-1N-12W	Biehl 1478-1502'
William H. Bass	*Gilliatt Comm. #2	3120'N 330'W SEc Sec. 13-1N-12W	Biehl 1490-1505'
J. C. Westfall	Stanley Price #1-W	18'N 120'W SEc NE SW Sec. 19-1N-12W	Biehl 1530-1570'
John W. Sanders	*A. L. Gher #4	1498'N 601'W SEc Sec. 1-1N-13W	Biehl 1632-1640'
Ashland Oil & Refining Co	*M. C. Kortge #4	330'N 330'W SEc SW NW Sec. 21-1N-13W	Benoist 2530-2541'
Skiles Oil Corp	Mt. Carmel Waterflood Unit #W-1	660'N 100'W SEc SW Sec. 7-1S-12W	Cypress 2130-2150'
Skiles Oil Corp	*Charles Chapman #8	330'N 330'E SWc SE SW Sec. 7-1S-12W	Cypress 2088-2150'
Shell Oil Co	*Shell-Mt. Carmel Water Flood Unit #36W (Formerly Shell-F. E. Parkinson #2)	330'N 330'E SWc Sec. 17-1S-12W	Cypress 2026-2029'
Shell Oil Co	*Shell-Mt. Carmel Water Flood Unit #46-W (Formerly Shell-Highland Cem. Comm. #1)	330'N 1093'W SEc SW Sec. 17-1S-12W	Cypress 2030-2047'
Shell Oil Co	*Mt. Carmel Water Flood Unit #6W (Formerly Shell-C. F. Chapman #1)	250'N 249'E SWc SW NE Sec. 18-1S-12W	Cypress 2104-2110'
Shell Oil Co	*Mt. Carmel Flood Unit #9-W (Formerly Shell-P. F. Hein #11)	990'N 1056'E SWc SE Sec. 18-1S-12W	Cypress 2036-2017'
Skiles Oil Corp	Mt. Carmel Water Flood Unit #W-2	720'S 1540'W NEc NW Sec. 18-1S-12W	Cypress 2080-2100'
Skiles Oil Corp	*Charles Chapman #7	1219'S 199'E NWc NE Sec. 18-1S-12W	Cypress 2044-2150'
Shell Oil Co	Mt. Carmel Flood Unit #2-W	250'S 5'E NWc SE Sec. 18-1S-12W	Cypress 2070-2090'
Shell Oil Co	*Mt. Carmel Water Flood Unit #14-W (Formerly Shell-Mt. Carmel Comm. #3)	873'N 908'E SWc NE Sec. 18-1S-12W	Cypress Sand
Shell Oil Co	*Mt. Carmel Water Flood Unit #4-W (Formerly Shell-C. F. Chapman #2)	721'N 630'W SEc NW Sec. 18-1S-12W	Cypress 2056-2074'
Shell Oil Co	*Mt. Carmel Water Flood Unit #16-W (Formerly Shell-Mt. Carmel Comm. #5)	330'S 780'E NWc NE Sec. 18-1S-12W	Cypress 2075-2093'
George & Wrather Oil Co	*Beckman #3	812'N 330'W SEc Sec. 32-1S-13W	Benoist 2520-2532'
George & Wrather Oil Co	*Beckman #2	330'S 330'W NEc SE Sec. 32-1S-13W	Benoist 2523-2532'
George & Wrather Oil Co	*Ceney #3	330'N 330'E SWc NW Sec. 33-1S-13W	Benoist 2520-2548'
Skiles Oil Corp	Daisey Brines #2	889'S 330'W NEc SW Sec. 5-2S-13W	Benoist 2550-2580'
Skiles Oil Corp	Mamie Wallace B-1	990'S 1061'W NEc SW Sec. 5-2S-13W	Benoist 2558-2590'
Skiles Oil Corp	Ralph Ewald #19	330'N 330'E SWc NW Sec. 5-2S-13W	Benoist 2600-2615'
White & Vickery	*A. P. Carst #W-1	330'S 330'W NEc SW SW Sec. 27-2S-13W	Cypress 2421-2437'
Skiles Oil Corp	*Maude Cowling #3	330'S 330'E NWc SE NE Sec. 7-2S-14W	Benoist 2570-2585'
The Superior Oil Co	Superior #WS-2	1400'N 50'W SEc NW Sec. 16-3S-14W	River Bed Gravel 80'
The Superior Oil Co	Superior #WS-1	1050'N 50'W SEc NW Sec. 16-3S-14W	River Bed Gravel 80'

Luboil	Helm W-34	90'N 360'W NEc NE NE SE Sec. 22-3S-14W	Cypress 2490-2515' Benoist 2625-2640' Aux Vases 2755-2780'
Luboil	Helm W-32	25'S 485'E NWc NE Sec. 22-3S-14W	Biehl 1800-1820' Benoist 2700-2720'
Luboil	Helm W-33	612'S 525'W NEc SE SW Sec. 22-3S-14W	Aux Vases 2765-2785'
Luboil	Helm W-37	640'N 250'E SWc SW NE Sec. 27-3S-14W	Cypress 2560-2585' Aux Vases 2755-2780' Benoist 2660-2670'
Luboil	Helm W-36	445'N 445'W SEc NE SE NW Sec. 27-3S-14W	Cypress 2560-2585' Benoist 2660-2670' Aux Vases 2755-2780'
Luboil	*Helm W-35 (Formerly A-56X)	1280'S 732'W NEc NW Sec. 27-3S-14W	Cypress 2560-2578' Benoist 2667-2677' Aux Vases 2758-2775'
Luboil	*Helm W-40 (Formerly #70)	480'N 430'W SEc NW Sec. 27-3S-14W	Cypress 2562-2589' Benoist 2662-2678' Aux Vases 2756-2788'
Luboil	Helm W-29	50'S 1560'E NWc NE Sec. 27-3S-14W	Benoist 2635-2650' Aux Vases 2755-2790'
Luboil	Helm W-28	10'S 810'E NWc NE Sec. 27-3S-14W	Benoist 2645-2660' Aux Vases 2750-2775'
Luboil	Helm W-27	10'S 105'E NWc NE Sec. 27-3S-14W	Benoist 2645-2660' Aux Vases 2750-2775'
WAYNE COUNTY			
The Texas Co.	*T. Pennington, Tr. #12, Well #1	330'S 582.2'E NEc SE SE Sec. 21-1N-6E	McClosky 3165-3182'
The Texas Co.	*T. Hilliard, Tr. #4-B, Well #7	670.2'S 1020.7'W NEc SW SE Sec. 23-1N-6E	McClosky 3158-3170'
The Texas Co.	*W. Jones, Tr. #29, Well #1	330'S 670'E SWc NW Sec. 28-1N-6E	McClosky 3180-3280'
The Texas Co.	*V. Clark, Tr. #15, Well #1	305'N 660'W SEc NE NW Sec. 28-1N-6E	McClosky 3184-3201'
The Texas Co.	L. Hale, Tr. #49, Well #3	352'S 685'W NEc NW Sec. 33-1N-6E	McClosky 3074-3083'
The Texas Co.	*L. Hale, Tr. #49, Well #5	984'N 628'W SEc NW Sec. 33-1N-6E	McClosky
The Texas Co.	*O. Powless, Tr. #80, Well #1	663'S 368'E SWc SE Sec. 33-1N-6E	McClosky 3163-3240'
The Pure Oil Co.	*Earl Flexter #9	330'S 330'W NEc NW Sec. 3-1N-7E	Aux Vases 2971-2992'
The Pure Oil Co.	*R. B. Duke "B" #2	330'N 330'E SWc NE NE Sec. 3-1N-7E	Aux Vases 2947-2964'
The Pure Oil Co.	*E. M. Reid #1	330'S 330'E NWc SW SE Sec. 3-1N-7E	Aux Vases 3000-3016'
The Pure Oil Co.	J. A. Robertson #8	330'S 330'W NEc SW NE Sec. 3-1N-7E	Aux Vases 2970-3000'
The Pure Oil Co.	J. A. Robertson #7	330'S 330'W NEc NW NE Sec. 3-1N-7E	Aux Vases 2970-3000'
The Pure Oil Co.	J. A. Robertson #6	330'N 330'E SWc NE Sec. 3-1N-7E	Aux Vases 2981-2998'
The Pure Oil Co.	*Earl Flexter #10	330'N 330'E SWc NE NW Sec. 3-1N-7E	Aux Vases 2989-3008'
The Pure Oil Co.	*J. A. Robertson #5	330'N 330'E SWc NW NE Sec. 3-1N-7E	Aux Vases 2976-2995'
National Associated Petroleum Co.	*C. L. Maloy #1	330'S 330'W NEc NW NE Sec. 13-1N-7E	Aux Vases 2973-3004'
National Associated Petroleum Co.	*Pearl Becker WI-#3	660'S 360'E NWc SW Sec. 16-1N-7E	Aux Vases 3055-3074'
National Associated Petroleum Co.	*Jennie Marie Rutger WI-#2	660'S 330'W NEc Sec. 17-1N-7E	Aux Vases 3052-3096'
The Pure Oil Co.	*J. C. Judd #2	330'N 330'W SEc SW SE Sec. 10-1N-8E	McClosky 3091-3100'
The Pure Oil Co.	*Frederick Cons. "A" #1	330'N 330'E SWc NW NW Sec. 13-1N-8E	McClosky 3111-3129'
The Pure Oil Co.	*C. B. Clay #10	660'N 330'W SEc NW Sec. 27-1N-7E	McClosky 3118-3146'
Dr. Irl J. Neal	*R. E. Thompson #4	660'S 990'E NWc Sec. 26-2N-7E	Aux Vases 2941-2951'
The Pure Oil Co.	*Ed Brinker "A" #1	660'N 660'E SWc SE NW Sec. 14-1N-8E	McClosky 3075-79'

WATER INPUT WELLS—Continued
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
WAYNE COUNTY—Concluded			
The Pure Oil Co.	*G. W. Best "A" #1	662′N 704′W SEc Sec. 14-1N-8E	McClosky 3102-3188′
The Pure Oil Co.	*Ollie Bolen #1	660′S 660′E NWc SE Sec. 15-1N-8E	McClosky 3063-86′
The Pure Oil Co.	*C. E. Webster #2	559′S 540′W NEc SE Sec. 15-1N-8E	McClosky 3054-3120′
The Pure Oil Co.	*Best Consolidated #1	330′N 330′E SWc NE NW Sec. 15-1N-8E	McClosky 3071-3088′
The Pure Oil Co.	*J. R. Fildes #1	330′S 330′W NEc SE NW Sec. 22-1N-8E	McClosky 3047-61′
The Pure Oil Co.	*Hershal Fitch #1	660′N 660′E SWc NE Sec. 23-1N-8E	McClosky 3097-3112′
The Pure Oil Co.	*Mattie Rogers #1	654′S 807′E NWc Sec. 23-1N-8E	McClosky 3051-3119′
The Pure Oil Co.	*A. R. Marvel "B" #2	330′S 330′W NEc NW NW Sec. 26-1N-8E	McClosky 3057-3064′
The Pure Oil Co.	*Charles Bonham #1	330′S 330′W NEc SE NW Sec. 27-1N-8E	McClosky 3063-3077′
The Pure Oil Co.	*V. C. Pittman "B" #3	330′N 330′E SWc NE SW Sec. 27-2N-7E	Aux Vases 2932-2993′
The Pure Oil Co.	*L. C. Jordan "B" #3	330′S 330′W NEc SW SW Sec. 27-2N-7E	Aux Vases 2987-2996′
The Pure Oil Co.	*G. A. Flexter "B" #2	330′N 330′E SWc SE SW Sec. 27-2N-7E	Aux Vases 2975-2992′
The Pure Oil Co.	*V. C. Pittman "B" #5	330′N 330′E SWc SE Sec. 27-2N-7E	Aux Vases 2970-2986′
The Pure Oil Co.	*Parmelia Plew #3	330′N 330′E SWc NE Sec. 34-2N-7E	Aux Vases 2976-2986′
The Pure Oil Co.	*L. P. Gray "A" #3	330′N 330′E SWc NW SE Sec. 34-2N-7E	Aux Vases 2960-2980′
The Pure Oil Co.	*Earl Flexter #6	330′N 330′E SWc SE SW Sec. 34-2N-7E	Aux Vases 2966-2988′
The Pure Oil Co.	*W. L. Waller #2	330′S 330′W NEc SW SE Sec. 34-2N-7E	Aux Vases 2942-2961′
The Pure Oil Co.	*Flexter Cons. "B" #4	330′N 330′E SWc NE NE Sec. 34-2N-7E	Aux Vases 2959-2978′
The Pure Oil Co.	*L. P. Gray "A" #4	330′S 330′W NEc NW SE Sec. 34-2N-7E	Aux Vases 2963-2980′
The Pure Oil Co.	*Flexter Cons. "B" #2	330′S 330′W NEc Sec. 34-2N-7E	Aux Vases 2957-2978′
The Pure Oil Co.	*Earl Flexter #7	330′S 330′W NEc SE SW Sec. 34-2N-7E	Aux Vases 2939-2957′
The Pure Oil Co.	*Earl Flexter #8	330′N 330′E SWc SE Sec. 34-2N-7E	Aux Vases 2960-2980′
The Pure Oil Co.	*G. A. Flexter "A" #2	330′S 330′W NEc SW Sec. 34-2N-7E	Aux Vases 2969-2983′
The Pure Oil Co.	*L. C. Jordan "A" #9	330′S 330′W NEc NW Sec. 34-2N-7E	Aux Vases 2967-2980′
The Pure Oil Co.	*L. C. Jordan "A" #6	330′S 330′W NEc SW SW Sec. 34-2N-7E	Aux Vases 2955-2970′
The Pure Oil Co.	*L. C. Jordan "A" #5	330′N 330′E SWc NE SW Sec. 34-2N-7E	Aux Vases 2970-2987′
The Pure Oil Co.	*A. W. Powers #3	330′N 330′E SWc NE SE Sec. 34-2N-7E	Aux Vases 2941-2958′
The Pure Oil Co.	*R. B. Duke "B" #3	330′S 330′W NEc SE SE Sec. 34-2N-7E	Aux Vases 2930-2948′
The Pure Oil Co.	*Carman Cons. #2	330′S 330′W NEc SE NE Sec. 34-2N-7E	Aux Vases 2956-3000′
The Pure Oil Co.	*A. W. Powers #4	330′S 330′W NEc SE Sec. 34-2N-7E	Aux Vases 2955-2975′
The Pure Oil Co.	*George Hearn #4	330′N 330′E SWc NW SW Sec. 35-2N-7E	Aux Vases 2938-2960′
The Pure Oil Co.	*Flexter Cons. "A" #3	330′N 330′E SWc NW Sec. 35-2N-7E	Aux Vases 2958-73′
The Pure Oil Co.	*T. R. Michels "A" #5	330′N 330′E SWc NW NW Sec. 35-2N-7E	Aux Vases 2948-2968′
The Pure Oil Co.	T. R. Michels-A #13	330′S 330′W NEc NW NW Sec. 35-2N-7E	Aux Vases 2970-3000′
A. J. Slagter, Jr.	*Pierce #1	330′S 330′W NEc SE Sec. 22-2N-8E	Rosiclare 3050′
The Pure Oil Co.	*L. E. Hosselton "C" #1	330′N 330′W SEc NE NW Sec. 29-2N-8E	Rosiclare & McClosky 3021-3051′
Walter Duncan	*Crask-Withrow #3	330′N 330′W SEc SW NW Sec. 28-1S-5E	Aux Vases 2945-2965′
Walter Duncan	*Sina Blackburn #4	330′N 330′W SEc NE SE Sec. 29-1S-5E	Aux Vases 2960-2980′
Walter Duncan	*George Braddy #3	330′N 330′E SWc NE Sec. 29-1S-5E	Aux Vases 2960-2991′
The Texas Co.	*Hopkins-Oglesby, Tr. #84, Well #1	512′S 376.5′E NWc NE NW Sec. 3-1S-6E	McClosky 3142-3218′
The Texas Co.	*O. Shehorn "B", Tr. #87, Well #3	569′N 330′E SWc NW Sec. 3-1S-6E	McClosky 3156-3194′

The Texas Co.	*O. Shehorn "B", Tr. #87, Well #2	556'N 1285'E SWc NW Sec. 3-1S-6E	McClosky 3160-3233'
The Texas Co.	*W. Hill, Tr. #82, Well #2	576'N 330'W SEc SW NE Sec. 4-1S-6E	McClosky 3196-3206'
Robinson-Puckett, Inc.	*B. Earl Puckett #3-A	330'N 330'E SWc NW NW Sec. 16-2S-8E	Aux Vases 3202-3220'
Robinson-Puckett, Inc.	L. B. Campbell #3	650'N 500'W SEc NW Sec. 16-2S-8E	Aux Vases 3275'
Robinson-Puckett, Inc.	B. Earl Puckett #3	850'S 800'E NWc SW Sec. 16-2S-8E	Aux Vases 3175'
Robinson-Puckett, Inc.	Arthur Wood #3	700'S 165'W NEc NW Sec. 16-2S-8E	Aux Vases 3275'
Robinson-Puckett, Inc.	*Guy Riggs #1	330'S 330'E NWc NE SW Sec. 16-2S-8E	Aux Vases
Robinson-Puckett, Inc.	*B. Earl Puckett #2-A	330'S 330'W NEc NW NW Sec. 16-2S-8E	Aux Vases 3186-3205'
Robinson-Puckett, Inc.	*B. Earl Puckett #8-A	330'N 330'E SWc NW Sec. 16-2S-8E	Aux Vases 3214-3237'
WHITE COUNTY			
S. C. Yingling	*Charles D. Kuykendall #6-A	295'S 365'E NWc SE SW Sec. 23-3S-10E	Biehl 1916-1938'
S. C. Yingling	*Halsey F. Higginson #1	330'S 330'E NWc NE NE Sec. 23-3S-10E	Biehl 1890-1912'
Concho Petroleum Co.	*Frank Millar #5 (1-16)	330'N 330'E SWc NE SE Sec. 27-3S-10E	Cypress 2852-2867'
Concho Petroleum Co.	*Dawson Heirs #2 (1-14)	330'N 330'E SWc SE NE Sec. 34-3S-10E	Tar Springs 2470-85' Cypress 2862-2898'
Concho Petroleum Co.	*Blackford #1 (1-15)	336'N 332'E SEc NW NE Sec. 34-3S-10E	Cypress 2840-2861'
S. C. Yingling	*Potter Comm. #1	330'N 60'W SEc SW NE Sec. 20-3S-14W	Cypress 2778-90'
S. C. Yingling	*Stella Fearn 5 "B"	330'N 247'E SWc NE SE SW Sec. 20-3S-14W	Lower Cypress 2771-2789'
S. C. Yingling	*Bertram East Wood #3	330'N 170'W SEc NW Sec. 20-3S-14W	Lower Cypress 2816-2830'
Lesh Drilling Co.	*J. P. Jones #3	681'N 330'E SWc NW NE Sec. 12-4S-9E	Rosiclare 3366-3375'
Herndon Drilling Co.	Jemima Bond W-5	34'N 5'E SWc SE Sec. 5-4S-14W	Aux Vases 2820-2850'
Herndon Drilling Co.	Jemima Bond W-6	34'N 700'E SWc SE Sec. 5-4S-14W	Aux Vases 2810-2840'
Herndon Drilling Co.	J. J. Bond W-25	10'N 2055'E SWc NE Sec. 8-4S-14W	Benoist 2650-2665' Aux Vases 2780-2810'
Herndon Drilling Co.	J. J. Bond W-23	645'N 2050'E SWc NE Sec. 8-4S-14W	Aux Vases 2780-2810' Benoist 2650-2660'
Herndon Drilling Co.	J. J. Bond W-16	1355'N 2050'E SWc NE Sec. 8-4S-14W	Benoist 2650-2660' (Est.) Aux Vases 2780-2810' (Est.)
Herndon Drilling Co.	J. J. Bond #W-5	5'N 528'E SWc NE Sec. 8-4S-14W	Benoist 2650-2665' Aux Vases 2780-2810'
Herndon Drilling Co.	Alice Garrison W-21	662'N 528'E SWc NE Sec. 8-4S-14W	Benoist 2655-2670' Aux Vases 2785-2815'
Herndon Drilling Co.	Jemima Bond #WO-26	5'N 1360'E SWc NE Sec. 8-4S-14W	Benoist 2650-2665' Aux Vases 2780-2810'
Herndon Drilling Co.	Jemima Bond W-7	70'S 15'W NEc NW NE Sec. 8-4S-14W	Aux Vases 2800-2830'
Herndon Drilling Co.	Jemima Bond W-8	670'S 7'W NEc NW NE Sec. 8-4S-14W	Aux Vases 2790-2820'
Herndon Drilling Co.	Jemima Bond W-9	1317'S 7'W NEc NW NE Sec. 8-4S-14W	Aux Vases 2650-2660'
Herndon Drilling Co.	Jemima Bond W-10	2075'S 7'W NEc NW NE Sec. 8-4S-14W	Aux Vases 2780-2810' Benoist 2650-2660'
Superior Oil Co.	*Greathouse #A-1	10'N 330'W SEc NE SW Sec. 32-4S-14W	Tar Springs 2242-2252'
Superior Oil Co.	*J. C. Kern #3	330'N 230'W SEc SW NE Sec. 32-4S-14W	Tar Springs 2244-2257'
Superior Oil Co.	Greathouse #B-3	469'S 330'E NW NE SE Sec. 32-4S-14W	Tar Springs 2240-2260'
Lohmann-Johnson Drilling Co., Inc.	*C. W. Ford #5	330'N 339'E SWc SE SE Sec. 7-5S-14W	Cypress 2660-2674'
Lohmann-Johnson Drilling Co., Inc.	*C. W. Ford #4	330'N 330'E SWc NE SE Sec. 7-5S-14W	Cypress 2674-2682'
Inland Producers, Inc.	E. H. Morris W-3	660'S 10'W NEc SW NE Sec. 21-5S-14W	Tar Springs 2300-2330'
The Carter Oil Co.	*Stokes Water Flood Unit #13-W	330'N 330'E SWc SE SW Sec. 5-6S-9E	Hardinsburg 2525'
The Carter Oil Co.	*Stokes Water Flood Unit #9-W	330'S 330'W NEc SW Sec. 5-6S-9E	Hardinsburg 2523'
The Carter Oil Co.	*Stokes Water Flood Unit #10-W	330'N 330'E SWc NE SW Sec. 5-6S-9E	Hardinsburg 2544'

WATER INPUT WELLS—Concluded
(Permits Issued in 1954)

Operator	Well (*=Converted Well)	Location	Formation
WHITE COUNTY—Concluded			
The Carter Oil Co	*Stokes Water Flood Unit #12-W	330′S 330′W NEc SE SW Sec. 5-6S-9E	Hardinsburg 2534′
The Carter Oil Co	*Stokes Water Flood Unit #8-W	330′N 330′E SWc SE NW Sec. 5-6S-9E	Hardinsburg 2539′
The Carter Oil Co	*Stokes Water Flood Unit #11-W	330′S 330′W NEc SW SW Sec. 5-6S-9E	Hardinsburg 2555′
The Carter Oil Co	*Stokes Water Flood Unit #14-W	330′S 330′W NEc NW Sec. 8-6S-9E	Hardinsburg 2552′
Sinclair Oil & Gas Co. (as unit operator)	*North Storm #5	330′S 330′W NEc NW SW Sec. 14-6S-9E	Waltersburg 2210-2255′
Sinclair Oil & Gas Co (as unit operator)	*North Storms #7	330′S 330′W NEc SW NW Sec. 14-6S-9E	Waltersburg 2255-2269′
Sinclair Oil & Gas Co (as unit operator)	*North Storms #8	330′N 330′E SWc NW Sec. 14-6S-9E	Waltersburg 2223-2252′
Sinclair Oil & Gas Co (as unit operator)	*North Storms #5	330′S 330′W NEc SE NW Sec. 14-6S-9E	Waltersburg 2220-2262′
Sinclair Oil & Gas Co (as unit operator)	*North Storms #8	330′N 330′E SWc SE NW Sec. 14-6S-9E	Waltersburg 2232-2263′
Sinclair Oil & Gas Co (as unit operator)	*North Storms #11	330′N 330′E SWc NE NW Sec. 14-6S-9E	Waltersburg 2246-2258′
C. E. Brehm Drilling & Producing Co	*Street-Austin #3	330′N 330′E SWc SE NW Sec. 33-6S-9E	Waltersburg 2387-2382′
Magnolia Petroleum Co	Palestine Sand Unit #W-69 (Magnolia-Skelly F. S. Ackerman #W-2)	330′S 330′W NEc SW SW Sec. 13-6S-10E	Palestine 2017-2029′
Barron Kidd	H. J. Karch #W-1	330′N 330′E SWc NE SW Sec. 13-6S-10E	Palestine
Barron Kidd	*Kerwin-Concord W-1 (Formerly #3)	330′S 330′W NEc SW SW Sec. 21-6S-10E	McClosky 3050-3060′
Magnolia Petroleum Co	Palestine Sand Unit Well #W-34 (Cumbie-Nisling #W-4)	330′N 445′E SWc Sec. 18-6S-11E	Palestine 2080-93′
Magnolia Petroleum Co	*Palestine Sand Unit #W-18 (Formerly Cumbie-Nisling #2)	990′S 495′E NWc SW Sec. 18-6S-11E	Palestine 2028-49′
Magnolia Petroleum Co	*Palestine Sand Unit Well #W-8 (Formerly Cumbie-Dagley #1)	390′S 100′W NEc NW SW Sec. 18-6S-11E	Palestine 2028-38′
Hiawatha Oil & Gas Co	Stinson Heirs #17	2365′N 650′E SWc SW Sec. 17-7S-11E	Cypress 2450-2465′ Tar Springs 2130-2140′
Hiawatha Oil & Gas Co	*Stinson Heirs #16	990′N 990′E SWc NE SW SW Sec. 17-7S-11E	Cypress 2450-2464′
Hiawatha Oil & Gas Co	*Lawton C. Todd #2	990′N 330′W SEc Sec. 18-7S-11E	Cypress 2446-2461′
Hiawatha Oil & Gas Co	*Stinson Heirs #13	1000′N 18′W SEc SW NE Sec. 19-7S-11E	Tar Springs 2093-2111′ Cypress 2444-2452′
Hiawatha Oil & Gas Co	*Stinson Heirs #11	330′S 990′W NEc Sec. 19-7S-11E	Tar Springs 2096-2112′ Cypress 2438-2456′
Hiawatha Oil & Gas Co	*Rowe Heirs #1	330′S 330′E NWc Sec. 20-7S-11E	Cypress 2444-2461′

BOND COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Hoiles Petroleum Co., Inc	Ohren #1	330′S 330′W NEc SW Sec. 6-4N-2W (oversize)	9- 6-54	2270′
Paul Andrews	Poland #1	330′N 330′W SEc SW NW Sec. 17-4N-2W	12- 6-54	1169′
Dale Hopkins	Lilly Heirs #1	330′N 330′W SEc SW NW Sec. 33-4N-2W	2- 4-54	1225′
Magnolia Petroleum Co	Carl Utlaut Well #1	330′S 330′W NEc SW SE Sec. 21-4N-3W	6-12-54	1143′
E. M. Self	Orville Harnetiaux #1	330′S 330′E NWc Sec. 22-4N-3W	4- 3-54	1141′
The Texas Co	Clarence Smith #1	330′S 330′E NWc SE SE Sec. 13-5N-2W	4-30-54	2730′
Lawrence Truitt	Cleo Perkins #1	330′N 330′E SWc SE NE Sec. 26-5N-2W	7-14-54	1500′
Hoiles Petroleum Co., Inc	A. H. Malan #1A	350′N 330′W SEc NE SE NW Sec. 22-5N-3W	2-24-54	500′
Alch Drilling Co	Ivan G. Hawks #1	330′N 330′W SEc SW Sec. 25-5N-3W	9-15-54	2440′
The Texas Co	E. Langel #1	330′N 330′W SEc NW SE Sec. 1-5N-4W	1-31-54	2326′
T. T. Thalmann & Elvin Greeley	Geries #1	495′N 495′E NWc SW SW Sec. 27-5N-4W	6-23-54	680′
Magnolia Petroleum Co	Joel Elam #6	330′N 380′E SWc Sec. 3-6N-2W	7-14-54	2276′
E. E. Jenneman & Max Schwartz	Joel Elam #1	990′N 990′E SWc Sec. 3-6N-2W	6-11-54	2302′
Parker Brothers, Inc	Durr #1	990′N 330′E SWc SE Sec. 3-6N-2W	7- 9-54	2258′
Max Schwartz	Ballenot #1	350′S 330′E NWc NE NE Sec. 10-6N-2W	10-10-54	2311′
Welker Oil Co	Donk Bros. Coal & Coke Co., #1	330′N 330′W SEc SW NW Sec. 34-6N-4W	10-20-54	1972′

CHRISTIAN COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
M. H. Richardson	R. McWard #1	330′S 330′W NEc SW SW Sec. 1-11N-3W	12- 5-54	2186′
O. A. Reed	Marcella Shumway et al #1	330′S 330′W NEc Sec. 7-13N-1E	7-18-54	2374′
O. A. Reed	Marcella Shumway #1-A	330′S 330′E NWc NE NW Sec. 7-13N-1E	7-30-54	2481′
Welker Oil Co	Traughber #1	330′N 330′W SEc NW SW Sec. 16-13N-1E	8- 4-54	2409′
The Dickinson Oil Co., Inc	Milhon #2	330′N 330′W SEc SW NW Sec. 17-13N-1E	10- 7-54	2430′
O. A. Reed	Charles Burdick #1	330′S 330′W NEc NW Sec. 18-13N-1E	5- 7-54	2393′
E. H. Kaufman	Peter M. Schwab #1	330′S 330′E NWc SE SW Sec. 20-13N-1E	6-27-54	1256′
Perry Fulk	Martin #1	450′S 770′E NWc NE SW Sec. 32-13N-2W	12-31-54	2208′
B. M. Heath	Kavanaugh Trust #1	330′N 990′E SWc NE Sec. 2-13N-4W	12-23-54	2000′
Collins Brothers Oil Co	Lela Gorden #1	330′N 330′E SWc NE NW Sec. 21-14N-1E	6- 8-54	3030′
Collins Brothers Oil Co	Traughber #1 Heirs	330′S 330′E NWc NE Sec. 28-14N-1E	7-26-54	3062′
Don McCumber	Thoma #1	330′N 330′W SEc SW Sec. 14-14N-2W	6-29-54	2140′
Arnold Valter	John Ballou #1	330′S 330′W NEc Frac. SW Sec. 7-14N-3W	7-10-54	178′
Wallace A. Warren	Hunsley #1	330′N 330′E SWc SE NE Sec. 8-14N-3W	11-22-54	1830′

CHRISTIAN COUNTY PLUGGING AFFIDAVITS—Concluded

Name of operator	Name of well and number	Location	Date plugged	Total depth
The Carter Oil Co.	O. H. Rink Comm. #1	330′S 330′W NEc SE SW Sec. 8-14N-3W	12-13-54	1887′
Dell Carroll	Elizabeth McKinivan #1, Lease B (Buckhart)	330′N 330′E SWc NE SW Sec. 9-14N-3W	11-24-54	1785′
J. W. Milonous & Keystone Oil Co.	Bob Garvey #1	330′S 330′W NEc SW SW Sec. 11-14N-3W	6-12-54	1894′
Arnold Valter	Denkert "B" #1	990′N 330′E SWc Sec. 16-14N-3W	12- 2-54	1741′
Arnold Valter	Robert Garvey #1	330′S 330′W NEc NE SE NE Sec. 16-14N-3W	4-18-54	1815′
Arnold Valter	Driskell #4	330′S 330′W NEc SW NE Sec. 17-14N-3W	12-10-54	1740′
Keystone Oil Co.	Driskell "C" #1	325′N 330′W SEc SW SE Sec. 17-14N-3W	11-25-51	1745′
The Carter Oil Co.	Marie Rink #1	990′N 1650′W SEc SW SE Sec. 17-14N-3W	12- 3-54	1735′
Herman Herring	Pickering #1	330′S 330′W NEc NW Sec. 19-14N-3W	12-31-54	1846′
Walter Duncan	H. C. Richardson #1	330′S 330′W NEc NW NE Sec. 20-14N-3W	8-16-54	1800′
Logan Oil Co.	Everett Pickering #1	330′S 330′W NEc Sec. 30-14N-3W	11- 8-51	1782′
B. M. Heath	Marine Bank of Springfield #1	330′S 330′E NWc Sec. 26-14N-4W	12-16-54	1889′
M. H. Richardson	Vera Elliott #1	330′S 330′E NWc SW Sec. 1-15N-1W	11- 7-54	1931′
Don Baines	M. L. Furstenberg #1	330′N 330′W SEc NW NE Sec. 2-15N-1W	10-21-54	1911′
Aurora Gasoline Co.	A. T. Vail #1	330′N 330′W SEc NE SE Sec. 5-15N-1W	9-27-54	1934′
H. F. Robinson	Lockbaum #1	330′N 330′W SEc SW SW Sec. 5-15N-1W	6-25-51	1926′
H. F. Robison	R. C. Augur #1	330′N 330′W SEc NE SE Sec. 7-15N-1W	4-28-54	1913′
H. F. Robison	B. F. Chestnut #1	330′N 330′W SEc NW NE Sec. 8-15N-1W	9-20-54	1933′
M. H. Richardson	Watts-Copenbarger Comm. #1	330′S 660′E NWc NE SW Sec. 9-15N-1W	5-17-54	1949′
M. H. Richardson	Earl H. Brown #1	330′S 330′E NWc SW NW Sec. 12-15N-1W	4-23-54	1950′
Welker Oil Co.	M. C. Morgan #1	330′S 330′W NEc SW Sec. 13-15N-1W	4-16-54	2017′
Welker Oil Co.	Wm. Scott #1	330′S 330′W NEc NE Sec. 14-15N-1W	10-30-54	2015′
J. F. Hinkle	Fulk Heirs #2	330′N 330′E SWc SE NW Sec. 15-15N-1W	12-15-54	1930′
M. H. Richardson	W. S. Toothaker #1	330′S 330′E NWc Sec. 15-15N-1W	5- 6-54	1892′
M. H. Richardson	Audry Moore #1	990′N 330′E SWc NW Sec. 16-15N-1W	4-27-54	1937′
The Carter Oil Co.	R. O. Augur #2	330′S 330′E NWc SE Sec. 17-15N-1W	11-10-54	2019′
M. H. Richardson	LeRoy Long #1	330′S 330′E NWc Sec. 21-15N-1W	7-16-54	1920′
H. F. Robison	Harold W. Augur #1	330′N 330′E SWc SE SE Sec. 12-15N-2W	5-18-54	1910′
H. F. Robison	Minnie Jackson #1	180′S 330′E NWc SW NW NE Sec. 12-15N-2W	6-12-54	1953′
Clifford Perardi	Margaret T. Crawford #2	330′N 330′E SWc NE SE Sec. 15-15N-2W	7-20-54	1953′
Clifford Perardi	Ferris #1	330′S 330′W NEc SE NE Sec. 16-15N-2W	6-11-54	1913′
M. H. Richardson	L. G. Tomlin #1	480′N 230′W SEc NW Sec. 18-15N-2W	5-10-54	1900′
James L. Schaefer	Nellis Lowe #1	330′S 330′E NWc Sec. 23-15N-2W	4-25-54	1922′
H. F. Robison-Lowell G. Ewart	Albert Concl Estate #1	354′N 330′W SEc NW NW Sec. 24-15N-2W	8-10-51	1925′
Welker Oil Co.	Addie Sample #1	330′S 330′E NWc SE SW Sec. 29-15N-2W	7-12-54	1893′
W. Duncan and Calvert Drilling, Inc.	Homer L. Morgret #1	330′S 330′W NEc NW Sec. 35-15N-2W	5- 6-54	1936′
Calvert Drilling, Inc.	Yockey #1	330′N 330′E SWc NE NE Sec. 36-15N-2W	7-21-54	1955′
Calvert Drilling, Inc.	Ralph W. Mateer et al #1	330′S 330′W NEc SW Sec. 36-15N-2W	5-27-54	1996′

CLARK COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
J. E. Woofter Drilling Co.	Wells #1	330′N 330′E SWc NE Sec. 19-9N-12W	8-21-54	1003′
M. C. Milam	Millis #1	330′S 330′E NWc NE SE Sec. 31-9N-12W	11-13-54	1177′
Frank Zakowski	Seaton #3	330′N 430′E SWc SE NW Sec. 7-9N-13W	10- 6-54	585′
F. R. Stocker	D. L. Downey #1	330′S 330′W NEc SE NE Sec. 9-9N-13W	10-11-54	1000′
James L. Schaefer	Lyman Crumrin #1	330′N 330′W SEc SW SW Sec. 13-9N-13W	9-27-54	885′
Continental Oil Co.	Vern Davidson #1	660′N 660′W SEc SW Sec. 13-9N-13W	4-22-54	857′
George S. Jackman	Van Fleet #1	330′N 330′E SWc NW NE Sec. 22-9N-13W	9- 9-54	1592′
James L. Schaefer	Seldon Davids #2	330′S 330′E NWc SW NE Sec. 24-9N-13W	8-18-54	863′
J. W. Lewis & D. Dewey	Poorman #1	330′N 330′W SEc NW NW Sec. 25-9N-13W	7-26-54	917′
J. E. Taylor	Ober McFarland #2	330′N 340′E SWc NW NW Sec. 1-9N-14W	1-29-54	200′
Tide Water Oil Co.	Connelly #1	40′S 260′E NWc NW SE Sec. 2-9N-14W	8-23-54	432′
John C. Sutton	Heim #1	330′W SEc NE NE Sec. 3-9N-14W	2-16-54	120′
The Pure Oil Co.	J. P. Bennett #7	290′S 180′E NWc NW SE SW Sec. 23-9N-14W	5-14-54	508′
The Pure Oil Co.	J. P. Bennett #8	175′S 180′E NWc SW SE SW Sec. 23-9N-14W	5-12-54	525′
The Pure Oil Co.	J. P. Bennett #9	110′S 35′E NWc SE SE SW Sec. 23-9N-14W	5-11-54	510′
The Pure Oil Co.	J. P. Bennett #16	20′S 40′W NEc NW SE SW Sec. 23-9N-14W	5-13-54	553′
The Pure Oil Co.	J. P. Bennett #29	160′N 310′W SEc SW Sec. 23-9N-14W	5- 7-54	529′
The Pure Oil Co.	J. P. Bennett #30	255′N 670′W SEc SW Sec. 23-9N-14W	5-11-54	531′
The Pure Oil Co.	J. P. Bennett #31	170′N 300′E SWc SE SW Sec. 23-9N-14W	5-15-54	503′
The Pure Oil Co.	Martha Misner #1	195′S 220′E NWc NW NE SW Sec. 26-9N-14W	1-16-54	495′
The Pure Oil Co.	Martha Misner #3	175′N 200′E SWc NW NE SW Sec. 26-9N-14W	1-18-54	512′
The Pure Oil Co.	Misner Consolidated #9	130′N 225′E SEc NW SE NW Sec. 26-9N-14W	1-11-54	596′
The Pure Oil Co.	Misner Consolidated #2	160′N 225′E SWc NW SE NW Sec. 26-9N-14W	1- 8-54	499′
The Pure Oil Co.	Misner Consolidated #21	220′S 220′W NEc SE NW Sec. 26-9N-14W	5- 5-54	543′
M. C. Milan	Cole #1	330′S 330′W NEc SE SE NW Sec. 27-9N-14W	4- 7-54	590′
Forest Oil Corp.	F. & H. Partlow #3	180′E 180′S NWc SW NE SE Sec. 27-9N-14W	1- 3-54	579′
Forest Oil Corp.	J. W. Simpson #8	180′N 210′W SEc NE NE SE Sec. 34-9N-14W	10-18-54	528′
Forest Oil Corp.	I. H. Burner #2	120′S 190′W NEc SE SE NE Sec. 34-9N-14W	1-31-54	524′
Forest Oil Corp.	J. W. Simpson #9	20′N 150′E SWc NW NE SE Sec. 34-9N-14W	10-12-54	560′
Forest Oil Corp.	Nora A. Fox #25	180′S 210′W NEc NW NW NE Sec. 34-9N-14W	3-22-54	546′
Forest Oil Corp.	J. W. Simpson #7	170′S 220′W NEc SE NE SE Sec. 34-9N-14W	10- 6-54	591′
Forest Oil Corp.	J. W. Simpson #10	30′N 30′W SEc NW NE SE Sec. 34-9N-14W	10-15-54	530′
Forest Oil Corp.	Nora A. Fox #6	190′S 140′W NEc NE NW NE Sec. 34-9N-14W	10-31-54	579′
Forest Oil Corp.	Nora A. Fox #8	170′S 310′W NEc NE NE NW Sec. 34-9N-14W	10- 8-54	563′
Forest Oil Corp.	Nora A. Fox #14	210′N 50′W SEc SE NE NW Sec. 34-9N-14W	3-14-54	523′
Forest Oil Corp.	Nora A. Fox #26	1′N 300′W SEc NW NW NE Sec. 34-9N-14W	9-18-54	512′
Forest Oil Corp.	Nora A. Fox #29	195′S 195′W NEc NW NW NE Sec. 34-9N-14W	10-15-54	602′
Forest Oil Corp.	I. H. Burner #4	190′S 140′W NEc NE SE NE Sec. 34-9N-14W	1- 8-54	569′
Forest Oil Corp.	M. Partlow #33	200′S 160′E NWc NW NW NW Sec. 35-9N-14W	8-11-54	640′
Forest Oil Corp.	J. M. Martz #1	200′N 190′E SWc NW SW NW Sec. 35-9N-14W	11-10-54	623′
Forest Oil Corp.	J. M. Martz #2	150′N 10′E SWc NE SW NW Sec. 35-9N-14W	1-28-54	586′
Forest Oil Corp.	M. Partlow #4	145′N 135′W SEc SE NW NW Sec. 35-9N-14W	2-19-54	565′
Forest Oil Corp.	J. M. Martz #6	150′S 140′E NWc NW SW NW Sec. 35-9N-14W	10-15-54	571′
Forest Oil Corp.	M. Partlow #21	85′S 125′W NEc SE NW NW Sec. 35-9N-14W	2-18-54	617′

CLARK COUNTY PLUGGING AFFIDAVITS—Concluded

Name of operator	Name of well and number	Location	Date plugged	Total depth
Forest Oil Corp	M. Partlow #25	220′S 160′W NEc NW NW NW Sec. 35-9N-14W	1- 9-54	650′
Forest Oil Corp	Marion Partlow #20	20′N 120′W SEc NE NW NW Sec. 35-9N-14W	2-13-54	617′
Forest Oil Corp	Marion Partlow #29	170′N 130′W SEc SE NW NW Sec. 35-9N-14W	2-25-54	621′
Forest Oil Corp	Lewis #1	110′S 10′E NWc NW NW SW Sec. 35-9N-14W	1-19-54	573′
Forest Oil Corp	Martin Dehl #4	290′N 220′E SWc NE NW SW Sec. 35-9N-14W	2- 8-54	562′
Forest Oil Corp	M. Dehl #6	370′S 210′W NEc NE NW SW Sec. 35-9N-14W	1- 5-54	562′
Forest Oil Corp	M. Dehl #7	115′N 195′W SEc SE SW NW Sec. 35-9N-14W	3-28-54	553′
Forest Oil Corp	M. Dehl #7	115′N 195′W SEc SE SW NW Sec. 35-9N-14W	11-13-54	568′
Forest Oil Corp	M. Dehl #8	140′S 160′W NEc SE SW NW Sec. 35-9N-14W	4- 4-54	552′
Forest Oil Corp	M. Dehl #9	140′S 10′E NWc SE SW NW Sec. 35-9N-14W	10- 4-51	549′
Forest Oil Corp	M. Dehl #3	105′N 160′W SEc SW SW NW Sec. 35-9N-14W	11- 8-54	613′
Great Lakes Carson Corp	Laura P. Bash #1	1452′N 1712′E SWc Sec. 23-10N-11W	11-11-54	1456′
M. C. Milam & W. F. Downey	Martz #1	330′N 330′W SEc NE NE SE Sec. 18-10N-13W	2- 9-54	613′
T. M. Pruett	Stanfield #1	330′N 330′E SWc N½ NE SE Sec. 18-10N-13W	1-19-54	286′
Magnolia Petroleum Co	Ella Mae Young #W-4	440′N SEc NW SE Sec. 19-10N-13W	11-22-54	461′
Magnolia Petroleum Co	Ella Mae Young #2	220′N 220′W SEc NW SE Sec. 19-10N-13W	11-22-54	437′
Magnolia Petroleum Co	C. W. Wells #1	330′N 344′W SEc NE SE Sec. 19-10N-13W	11-16-54	507′
Magnolia Petroleum Co	C. W. Wells #2	250′N 330′E SWc NE SE SE Sec. 19-10N-13W	11-23-54	458′
Magnolia Petroleum Co	E. M. Shanks #1	330′S 330′W NEc SE SE Sec. 19-10N-13W	11-23-54	457′
Magnolia Petroleum Co	Ella Mae Young #W-3	440′N 440′W SEc NW SE Sec. 19-10N-13W	11-23-54	455′
Magnolia Petroleum Co	Wm. Carper A & B #2	576′N 826′E SWc SE NE Sec. 30-10N-13W	2-14-54	1060′
Magnolia Petroleum Co	Wm. Carper A & B #1	657′S 159′W SEc SW NE Sec. 30-10N-13W	2- 7-54	1360′
Cecil O. Smith	Ben Stephens #2	990′S 330′E NWc NE Sec. 3-10N-14W	1-22-54	260′
Frenchot & Co	Sloan & Beasley #14	50′S 280′W SEc SE SW NW Sec. 3-10N-14W	2-10-04	330′
D. W. Franchot & Co	Claude Beasley #5	330′N 325′E SWc NW NE Sec. 4-10N-14W	5- 6-54	318′
D. W. Franchot & Co	Beasley #6	75′S 200′E NWc SW NE Sec. 4-10N-14W	2- 4-54	415′
D. W. Franchot & Co	Beasley #7	125′N 163′E SWc NW NE Sec. 4-10N-14W	5- 3-54	405′
D. W. Franchot & Co	Beasley #11	240′N 110′W SEc NW NE Sec. 4-10N-14W	2- 6-54	335′
D. W. Franchot & Co	Gard #7	50′N 200′E SWc NW NE Sec. 4-10N-14W	12- 8-54	290′
D. W. Franchot & Co	Gard #8	250′N 200′E SWc SW NE NW Sec. 4-10N-14W	12- 6-54	300′
D. W. Franchot & Co	Gard #12	200′N 200′W SEc NW NE Sec. 4-10N-14W	4-23-54	320′
D. W. Franchot & Co	Bruce Gard #1	4′N 6′W SEc NE NW Sec. 4-10N-14W	4-10-54	310′
D. W. Franchot & Co	Bruce Gard #3	130′S 645′E NWc NE NW Sec. 4-10N-14W	3-21-54	380′
D. W. Franchot & Co	Bruce Gard #5	700′N 205′W SEc SE NW Sec. 4-10N-14W	1-29-54	400′
D. W. Franchot & Co	Bruce Gard #6	625′S 600′W NEc NE NW Sec. 4-10N-14W	3-25-54	445′
D. W. Franchot & Co	Bruce Gard #9	200′N 575′W SEc NE NW Sec. 4-10N-14W	3-30-54	300′
D. W. Franchot & Co	Bruce Gard #10	450′N 400′W SEc SE NW Sec. 4-10N-14W	2- 2-54	325′
D. W. Franchot & Co	Bruce Gard #11	330′N 200′W SEc NE NW Sec. 4-10N-14W	4-29-54	360′
D. W. Franchot & Co	C. Elliott #6	60′N 150′W SEc NE NW NW Sec. 4-10N-14W	12- 2-54	315′
D. W. Franchot & Co	C. Elliott #7	175′N 175′W SEc SE NW NW Sec. 4-10N-14W	11-30-54	328′
Oil Research, Inc	Darrell Downey #1	860′S 220′E NWc NW NW SW Sec. 7-10N-14W	10- 1-54	529′
Frank T. Whittinghill, Jr	Zara Shawyer #1	220′N 660′E SWc NW NE Sec. 10-10N-14W	10- 1-54	529′
Frank T. Whittinghill, Jr	Bruce Gard #1	660′N 660′E SWc NE Sec. 10-10N-14W	10- 1-54	533′
L. B. Vanhorn & C. C. Cottrell	Sharp #1	990′S 330′E NEc SW SE Sec. 11-10N-14W	4-30-54	505′

Forest Oil Corp	McDaniels FO-11	220'N 240'E SEc NE NW SW Sec. 14-10N-14W	5-29-54	511'
Forest Oil Corp	J. C. Hartman #7	150'N 60'W SEc NW SE SE Sec. 15-10N-14W	4-14-54	534'
Forest Oil Corp	J. C. Hartman #11	120'S 55'E NWc NE SE Sec. 15-10N-14W	4- 6-54	503'
Forest Oil Corp	J. C. Hartman #12	30'S 140'E NWc SE SE SE Sec. 15-10N-14W	4- 9-54	539'
Forest Oil Corp	J. C. Hartman #13	190'N 10'W SEc SW SE SE Sec. 15-10N-14W	5- 3-54	554'
Forest Oil Corp	J. C. Hartman #15	220'S 200'E NWc NW SE SE Sec. 15-10N-14W	3-26-54	512'
Forest Oil Corp	J. C. Hartman #16	330'S 195'E NWc SW NE SE Sec. 15-10N-14W	3- 9-54	546'
J. A. Hill	Hall #1	335'S 330'E NWc SW NE Sec. 18-10N-14W	4-20-54	1505'
Forest Oil Corp	J. C. Shute G-22	220'S 220'E NWc NW NE SW Sec. 23-10N-14W	4-29-54	509'
Forest Oil Corp	Lenex #F-3	180'S 220'E NWc NE SW NW Sec. 23-10N-14W	7- 3-54	498'
Forest Oil Corp	DO-23 Short	440'S 5'E NWc NW NW SW Sec. 23-10N-14W	5- 1-54	490'
Frank A. Bridge	Pearsall #1	330'S 330'E NWc SE SE Sec. 23-10N-14W	11-27-54	1360'
Glenn O. Pinnell	Pinnell #1	330'N 330'E SWc NW NW Sec. 5-11N-14W	4- 1-54	940'
J. W. Lewis	E. P. Daly #1	330'S 330'E NWc SE SW Sec. 35-11N-14W	12- 3-54	415'
Frederick B. Cline	Welsh #2	330'N 330'W SEc SW SW Sec. 28-12N-10W	7-19-54	1075'
J. W. Spencer	Elzie Newman #1	330'S 330'W NEc SW Sec. 20-12N-13W	6-19-54	550'

CLAY COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Stewart Oil Co	Flota Valbert #1	330'S 330'W NEc SW NE Sec. 11-2N-6E	2-18-54	3192'
George & Wrather Oil Co	Leonard #1	330'S 330'W NEc SW SW Sec. 14-2N-6E	8-29-54	3170'
Alva C. Davis	Louise D. Daly "A" #2	330'N 330'W SEc NE NE Sec. 1-2N-7E	7-20-54	3142'
Calvert Drilling, Inc	Harry Fitzgerald #1	330'S 330'W NEc Sec. 4-2N-7E	6-16-54	3152'
National Associated Petroleum Co	Gene Greenwood #1	330'N 330'W SEc NW SE Sec. 8-2N-7E	8-22-54	3091'
National Associated Petroleum Co	May Ehlers #1	330'S 330'W NEc NW Sec. 9-2N-7E	11-30-54	3125'
National Associated Petroleum Co	Pansy L. Kitley #1	330'S 330'W NEc NW SE Sec. 16-2N-7E	8-12-54	3139'
National Associated Petroleum Co	Skelton-National #1	330'S 330'W NEc NW SW Sec. 17-2N-7E	8-14-54	3120'
National Associated Petroleum Co	Halterman-Gorman-Skelton Comm. #1	330'S 330'W NEc NW SE Sec. 17-2N-7E	11-20-54	3146'
The Wiser Oil Co	John Daly #9	330'N 990'W SEc NW NW Sec. 6-2N-8E	4- 2-54	3066'
The Wiser Oil Co	John Daly #10	430'S 650'W NEc NW Sec. 6-2N-8E	3-27-54	3077'
Griffin-Walker Associates	Moseley #1	330'S 330'E NWc NE SW Sec. 11-2N-8E	9-27-54	3043'
Don Baines	W. W. Long #1-A	990'N 430'E SWc Sec. 12-2N-8E	5-18-54	3115'
The Pure Oil Co	J. R. Pierce-B #5	330'N 330'E SWc Sec. 14-2N-8E	5-21-54	3046'
Whaley Oil Corp	Clara Wilson #1	330'S 330'W NEc NW Sec. 14-2N-8E	4- 3-54	3095'
Whaley Oil Corp	Coulter Heirs #1	330'S 330'W NEc NW NE Sec. 14-2N-8E	4-24-54	3100'
E. A. Obering	Wyman Comm. #1	330'N 330'E SWc NE NW Sec. 17-3N-5E	2-27-54	2851'
Calvert Drilling, Inc	Mewton #1	330'N 330'E SWc NW NE Sec. 21-3N-5E	7- 6-54	2962'
Aurora Gasoline Co	E. A. Paul #1	330'S 330'E NWc NE NE Sec. 34-3N-5E	3-24-54	3112'
National Associated Petroleum Co	Spiker-Sefton Comm. "A" #1	380'N 330'E SWc Sec. 7-3N-6E	10-18-54	2897'
National Associated Petroleum Co	Angie Barton #2	330'S 330'E NWc Sec. 18-3N-6E	10-19-54	2806'
Wm. H. Krohn	Mary Hedrick #1	330'N 330'E SWc NE NE Sec. 24-3N-6E	5- 6-54	3094'

CLAY COUNTY PLUGGING AFFIDAVITS—Concluded

Name of operator	Name of well and number	Location	Date plugged	Total depth
McKelvey & Sipola	Paul Franklin #1	660'S 330'W NEc NW NW Sec. 2-3N-7E	4- 5-54	2978'
Sanders-Fye Drilling Co	E. V. Chaffin #1-A	330'N 380'W SEc SW Sec. 4-3N-7E	12-14-54	2156'
The Texas Co	Edmund B. Carr #1	330'N 330'W SEc NE NE Sec. 4-3N-7E	12-31-54	3051'
Sanders-Fye Drilling Co	E. V. Chaffin #1	330'N 330'W SEc SW Sec. 4-3N-7E	12-11-54	2847'
Henson Drilling Co	Cannon-Hermeling #3	330'S 330'W NEc SE SE Sec. 5-3N-7E	6-26-54	3060'
H. G. Henson	H. Brissenden #2	330'S 330'E NWc Sec. 9-3N-7E	6-27-54	2970'
Shulman Bros	Henry Hardy #1	330'S 330'W NEc SE SE Sec. 9-3N-7E	4-24-54	2960'
W. C. McBride, Inc	Edgar Hancock #2	330'N 330'W SEc NE NE Sec. 10-3N-7E	5-10-54	2937'
J. L. Black Oil Producing, Inc	Frank Cailteux #1	330'S 330'E NWc NW SE NW Sec. 11-3N-7E	12-14-54	2956'
Sanders-Fye Drilling Co	Boyles-Raley Comm. #1	990'S 330'E NWc SE Sec. 12-3N-7E	4- 4-54	2943'
Sanders & Fye Drilling Co	Harbin #1	330'S 330'W NEc SE NW Sec. 13-3N-7E	5- 4-54	3036'
Griffin-Walker Associates	W. Billington #1	330'N 990'W SEc NW NE Sec. 13-3N-7E	2-23-54	427'
Shulman Brothers	W. G. Emory #1	330'N 330'E SWc NW Sec. 15-3N-7E	6-24-54	2989'
Wm. H. Krohn	Chambliss #2	42'N 178'W SEc Frac. NW Sec. 19-3N-7E	7-19-54	3027'
John E. Mulligan	Alpaugh #1	990'S 330'W NEc NW SE Sec. 20-3N-7E	5-18-54	2972'
Magnolia Petroleum Co	Samuel A. Stanford #1	330'N 330'E SWc NW SE Sec. 22-3N-7E	7-18-54	3025'
E. H. Kaufman	Stanford Heirs #1	330'N 330'E SWc SE SE Sec. 26-3N-7E	5- 8-54	3125'
Jas. N. Hockman	Stanford-Weiler Comm. #2	660'N 990'E SWc NE NW Sec. 27-3N-7E	2-23-54	3038'
Noah Petroleum Co	Lewis Brissenden #1	330'N 330'E SWc NW SE Frac. Sec. 31-3N-7E	5- 7-54	3180'
Garland Mullendore	R. H. Pierce #1	330'N 330'W SEc Sec. 36-3N-7E	9-23-54	3160'
The Noah Petroleum Co	Lester Jones #1	330'N 330'E SWc NW NW Sec. 3-3N-8E	9-26-54	3101'
C. S. Higgins	Williard R. Dewhirst #1	330'S 330'W NEc NW SE Sec. 6-3N-8E	8- 4-54	3057'
Breuer-Robison Oil Co	Jesse Hunley, Jr. Comm. #1	660'N 330'W SEc SW Sec. 8-3N-8E	8- 5-54	3091'
Calvert Drilling, Inc	Bemis "B" #9	1650'N 330'W SEc SW SW Sec. 9-3N-8E	4- 4-54	3079'
Kenneth C. Bell	Seed Heirs, et al #1	330'S 330'W NEc SE SW Sec. 14-3N-8E	6-14-54	3096'
Calvert Drilling, Inc	Behnke et al #1	330'S 330'E NWc NE NW Sec. 16-3N-8E	4-14-54	3070'
Breuer-Robison Oil Co	Hunley-Braden #5 Comm	330'S 330'W NEc NW NE Sec. 17-3N-8E	4-28-54	3048'
W. W. Toler Drilling Corp	B. C. Manker #5	2310'N 330'W SEc SE NE SE Sec. 17-3N-8E	7-22-54	2961'
John W. Rudy	Henderson #A-1	330'S 330'E NWc SE Sec. 19-3N-8E	2-23-54	3082'
Calvert Drilling, Inc	W. L. Travis #1	330'N 330'W SEc NW NW Sec. 28-3N-8E	11- 1-54	3039'
The Pure Oil Co	Bunyan-Travis-A #5	330'S 330'W NEc NW NE Sec. 33-3N-8E	1-28-54	2997'
The Pure Oil Co	Bunyan Travis-A #6	330'S 330'E NWc NE Sec. 33-3N-8E	1-23-54	2990'
The Pure Oil Co	Bunyan Travis-A #3	990'S 330'E NWc NE Sec. 33-3N-8E	1-20-54	2985'
The Pure Oil Co	Bunyan Travis #2-A	1650'S 990'E NWc NE Sec. 33-3N-8E	1-14-54	2972'
The Pure Oil Co	Albert Travis #4	330'S 1483.6'E NWc NW Sec. 33-3N-8E	1- 9-54	3000'
Thomas S. Doran	Holaday #1	330'N 330'W SEc NW NE Sec. 5-4N-5E	9- 7-54	2444'
Homer Luttrell	Smith Heirs #1	330'N 330'W SEc NE SE Sec. 8-4N-5E	2- 6-54	2718'
J. L. Black Oil Producing, Inc	Savilla Colglazier #1	330'N 330'E SWc SE NW Sec. 12-4N-5E	2-21-54	2692'
Shulman Bros	Dillman et al #1	330'N 330'E SWc SE NE Sec. 21-4N-5E	8-27-54	2785'
The Noah Petroleum Co	Vaught-Holliday #1	330'S 330'E NWc NE NE Sec. 25-4N-5E	1-22-55	2925'
The Texas Co	Otta Cochran #1	330'S 330'W NEc SW NE Sec. 26-4N-5E	6-29-54	2615'
Ralph Harrell, Vaughn Brown, & Burvil D. Kincaid	Pearl Hinkley #1	330'N 330'E SWc NE SE Sec. 17-4N-6E	6- 4-54	2889'
Don Baines	A. D. Steely #3	990'N 990'W SEc NE SW Sec. 24-4N-6E	9-23-54	3006'
Don Baines	McConnell-Nettleton Comm. #1	330'N 330'E SWc NW NE Sec. 24-4N-6E	11- 1-54	2976'
Sanders-Fye Drilling Co	Stanley-Gibson Comm. #1	330'S 330'W NEc SW Sec. 3-4N-7E	8- 9-54	2960'

Sanders-Fye Drilling Co.	McCollum #1	330′S 330′W NEc SW Sec. 9-4N-7E	3- 9-54	3054′
Calvert Drilling, Inc.	Kincaid #1	330′N 330′W SEc NW SE Sec. 12-4N-7E	4-21-54	3029′
J. L. Black Oil Producing, Inc.	Otta Kidwell #1	330′N 330′E SWc NE NE Sec. 15-4N-7E	10-27-54	2980′
Gulf Refining Co.	Fern Bettinger #3	330′S 330′W NEc NW NE Sec. 26-4N-7E	10-16-54	2632′
Don Slape Drilling Co.	A. Klingler #1	330′N 330′E SWc SE Sec. 10-4N-8E	12- 7-54	3119′
Phillips & Harper Drilling Co.	Levitt #1	330′N 330′W SEc SE NE SW Sec. 22-4N-8E	7-26-54	3090′
Walter Duncan	E. J. Levitt #1	330′S 660′W NEc SW SE Sec. 22-4N-8E	9- 4-54	3081′
Don Slape Drilling Co.	West #3	330′S 660′W NEc SW NE Sec. 22-4N-8E	7-14-54	3097′
Don Slape Drilling Co.	West #7	330′S 330′E NWc NE SE Sec. 22-4N-8E	11-23-54	3047′
N. V. Duncan	Verne Payne #1	330′S 330′W NEc SW NW Sec. 27-4N-8E	2-28-54	3150′
James McCollum & Harland Kincaid	Elza Lutz-Hamilton Pax #1	330′S 330′E NWc NE SE Sec. 34-4N-8E	5-19-54	3159′
Dale Hopkins	Olin Ashton et al #1	330′N 330′W SEc NW SW Sec. 1-5N-5E	8 -3-54	2502′
Sanders-Fye Drilling Co.	O. Louder #1-B	330′N 330′W SEc NW Sec. 11-5N-5E	7-17-54	2400′
Welker Oil Co., Inc.	Jinks #1	330′S 330′E NWc NE SW Sec. 11-5N-5E	3- 2-54	2352′
Theodore R. Lindsay	George McGee et al Unit #1	330′N 330′E SWc SE SW Sec. 14-5N-6E	12-17-54	2902′
J. L. Black Oil Producing, Inc.	Claude Pilcher #1	330′S 330′W NEc SW SE Sec. 16-5N-5E	10-16-54	2444′
J. L. Black Oil Producing, Inc.	Arthur Smith #1	330′S 330′E NWc SE Sec. 21-5N-5E	10-14-54	2523′
Dr. Irl J. Neal	John Smith #1	330′N 330′E SWc NW Sec. 23-5N-5E	10-15-54	2456′
D. B. Lesh Drilling Co.	Harry Lewis #1	330′S 330′E NWc NE Sec. 3-5N-6E	8- 9-54	2841′
Cecil Smith	Walter Stortzum #1	330′N 330′E SWc Sec. 12-5N-6E	4-14-54	2867′
Calvert Drilling, Inc.	Charles McGee et al #1	330′S 330′E NWc NE NE Sec. 23-5N-6E	4-13-54	2930′
Basin Oil Corp.	B. Hall #3	330′S 330′E NWc SE SE Sec. 9-5N-7E	6-12-54	2530′
Shulman Brothers	Byrnes #1	330′S 330′E NWc SE SE Sec. 7-5N-7E	5-28-54	2866′
Kingwood Oil Co.	F. Wyatt #1	330′S 330′W NEc NW SW Sec. 12-5N-7E	1-23-54	2999′
Shulman Brothers	Walter Stortzum #1	330′S 330′W NEc SE Frac. NW Sec. 18-5N-7E	5-17-54	2877′
James McCollum & Harland Kincaid	W. G. Lewis-Hamilton Pax #1	330′S 330′E NWc NE NE Sec. 22-5N-7E	6-26-54	2928′
Harry Ames	S. S. Knowles #1	330′S 330′E NWc SE Sec. 24-5N-7E	1-12-55	2882′
R. A. Harris	Ralph H. Wattles #1	330′S 330′W NEc SW SW Sec. 35-5N-7E	10- 6-54	2965′
Collins Bros. Oil Co.	A. C. Rudolphi #1	330′N 330′E SWc NE SW Sec. 35-5N-8E	1-27-54	3101′

CLINTON COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Louis Kapp	Reinkensmeyer #1	330′S 330′E NWc SE NE Sec. 4-1N-1W	4-10-54	1440′
Herman Graham	G. E. Allison #A-4	330′N 720′E SWc NE Sec. 12-1N-1W	1-26-54	4063′
Herman Graham	Allison #3-B	330′S 990′W NEc NE Sec. 12-1N-1W	1-21-54	2925′
T. M. Pruett	W. P. White #1	330′N 330′E SWc SE NW Sec. 16-1N-1W	6-13-54	1454′
M. Mazzarino	Rudolph Michael #1	330′S 330′W NEc SW Sec. 17-1N-1W	9-14-54	1392′
Louis Kapp	John Gherardini #2	330′S 330′E NWc SE SE Sec. 17-1N-1W	1-31-54	1383′
Louis Kapp	John Gherardini #1	330′S 330′W NEc SW SE Sec. 17-1N-1W	1-15-54	1384′
Homer Rutherford	Fred W. Kleine #1	990′S 330′W NEc NW Sec. 18-1N-1W	4- 9-54	1376′
Louis Kapp	Koelling #1	330′S 330′E NWc NE NE Sec. 20-1N-1W	5- 6-54	1401′

CLINTON COUNTY PLUGGING AFFIDAVITS—Concluded

Name of operator	Name of well and number	Location	Date plugged	Total depth
Dale Hopkins	Koelling #1	330'S 330'E NWc SE SW Sec. 21-1N-1W	3-30-54	1467'
Rim Oil Co	Jenson Community #1	330'S 330'W NEc SE NW Sec. 2-1N-2W	10-27-54	2868'
Shulman Brothers	Zimmerman #1	330'S 990'W NEc SE Frac. SW Sec. 6-1N-2W	12-20-54	2080'
Homer Luttrell	F. Manken #3	330'S 330'W NEc SW NW Sec. 11-1N-2W	5-27-54	1331'
M. Mazzarino	Charles Boeker #1	330'N 330'E SWc SE NE Sec. 12-1N-2W	9-27-54	1371'
Leland Monken	Rosa Stephens #1	330'S 330'E NWc NE SE Sec. 23-1N-2W	11- 6-54	1250'
Leland Monken	Anna Nottmeyer #1	330'N 330'E SWc NW SE Sec. 23-1N-2W	10-25-54	1379'
Jet Oil Co	D. H. Meyer #1	330'S 330'E NWc Sec. 30-1N-2W	11-17-54	1423'
Robert H. Robben	Zimmerman #1	330'N 330'E SWc NW SE SE Sec. 1-1N-3W	4- 3-54	2625'
Robben Oil Company	Robben #8	1120'N 647'E SWc SW SE Sec. 5-1N-3W	4- 5-54	1003'
Robert H. Robben	Ward #1	330'S 330'W NEc NW Sec. 12-1N-3W	5-21-54	2598'
M. Mazzarino	Johnpeter #1	330'S 330'E NWc SW NE Sec. 25-1N-3W	12- 9-54	2730'
E. A. Obering	Schroeder Community #1	330'S 330'W NEc SE NE Sec. 11-1N-4W	8- 8-51	2538'
Gulf Refining Co	Fred Tonnies #1	330'N 330'E SWc NW SW Sec. 21-1N-5W	12-21-54	2095'
Gulf Refining Co	Herman Jansen #1	330'S 330'E NWc NE SW Sec. 26-1N-5W	8-20-54	2220'
Gulf Refining Co	M. Oelze #15	330'N 330'W SEc NW SE Sec. 3-1S-5W	9- 9-51	2130'
C. R. Winn	Huling #1	330'S 330'W NEc NW Sec. 4-1S-5W	10-25-54	2205'
Rudolph Behrens	Carson #1	330'N 330'W SEc SW NE Sec. 21-2N-1W	12-22-54	1483'
Dale Hopkins	Emma Martin #1	330'S 330'W NEc NW NW Sec. 23-2N-1W	8-12-51	1510'
Charles K. Stein	Louis Stein Estate #1	330'N 330'W SEc NW NW Sec. 1-2N-2W	10-29-54	2750'
C. G. Hardin	Nelson Arrowsmith #1	330'S 330'E NWc SE Sec. 2-2N-2W	6-29-54	2802'
Leroy Raeber	Leroy Raeber Middle Lake #1	660'S 330'W NEc NW NE Sec. 3-2N-2W	10- 7-54	2800'
Louis Kapp	Peppenhorst #1	330'S 330'E NWc SW SE Sec. 5-2N-2W	6- 7-54	1230'
Louis Kapp	Schomaker #1	330'N 330'W SEc SW SW Sec. 5-2N-2W	3- 8-54	1187'
Louis Kapp	Frank C. Warnecke #1	400'N 200'E SWc NE NW Sec. 8-2N-2W	4-16-54	1193'
M. Mazzarino	Warnecke #1	330'S 330'W NEc NW SW Sec. 8-2N-2W	7-23-54	1220'
Edgar White	Goebling #1	330'N 330'W SEc NE SW Sec. 36-2N-2W	9-18-54	1321'
Henry Loeb & Albert Woll	Bernard Detters #13	660'S 660'W NEc SW Sec. 2-2N-3W	9-15-54	740'
March Drilling Co	Lillie Schroeder #1	330'N 330'E SWc NE NE Sec. 6-2N-3W	6-18-54	2260'
R. E. Didier	Wilken #1	330'S 330'E NWc SE Sec. 10-2N-3W	7- 2-54	905'
R. E. Didier	R. E. Didier #1	330'S 330'W NEc SW Sec. 10-2N-3W	7-28-54	910'
R. E. Didier	Wilkin #2	330'S 330'E NWc SW NW SE Sec. 10-2N-3W	10-25-54	968'
Ernest Z. Edens & K. L. Wattleworth	Harold Haumesser #3	330'N 330'E SWc NW NW Sec. 14-2N-3W	7-11-54	2600'
Welker Oil Co	Kunkle #1	330'N 330'W SEc NE Sec. 26-2N-3W	7-24-54	1270'
E. J. Goldschmidt	Gerstner #1 (School Tract)	530'W NEc SE Sec. 1-2N-4W	1- 6-51	2268'
E. W. Herchenroeder	Tschudy #1	330'S 330'E NWc SW SE Sec. 14-2N-5W	7-11-54	3025'
E. M. Self	Hester #1	990'S 330'E NWc SE NW Sec. 12-3N-1W	1-24-54	1364'
J. L. Hassett	Lottie J. McAdams #1	330'N 330'E SWc NE Sec. 28-3N-1W	4-13-54	1640'
John F. Dunnill	Lottie J. McAdams #1	330'N 330'W SEc NE SE SE Sec. 28-3N-1W	10-13-54	1460'
J. L. Hassett	Lottie J. McAdams #2	330'S 330'W NEc SW Sec. 28-3N-1W	3-24-53	1485'
Davis-Menhall Drilling Co., Inc	Hartman #1	330'N 330'E SWc Sec. 31-3N-1W	7-11-54	1382'
Shulman Brothers	Kleysteuber et al #1	330'N 330'E SWc NW NE Sec. 34-3N-1W	10-29-54	2867'
J. R. Bradshaw	A. Huber #1	330'N 330'E SWc NW SE SE Sec. 36-3N-1W	1-28-54	1541'
Superior Oil Co	Frank Seiffert #1	370'S 330'W NEc SW SW Sec. 21-3N-2W	4- 1-54	3711'

H. F. Robison	Newkirk #1	990'S 330'E NWc SE SW Sec. 23-3N-2W	10-16-54	2725'
C. E. Brehm Drilling & Producing Co.	Thomas Quick et al #1	330'N 330'W SEc SW NE Sec. 25-3N-2W	8-10-54	1556'
Louis Kapp	Netemeyer #1	330'S 330'W NEc SW Oversized Sec. 31-3N-2W	7-19-54	1225'
C. E. Brehm Drilling & Producing Co.	Lottie McAdams #1	330'N 330'W SEc NE Sec. 35-3N-2W	6- 8-54	2835'
The Texas Co.	P. Gray Community #12	380'S 340'W NEc SE SE Sec. 35-3N-2W	6-11-54	2625'
M. Mazzarino	Hughes-Diekemper Comm. #1	330'S 330'W NEc SW SW Sec. 23-3N-3W	10-12-54	1159'
Gladys B. Goldsmith	Woker #1	330'S 330'W NEc SE SW Sec. 28-3N-3W	6-16-54	1013'
Gladys B. Goldsmith	Wringe #1	330'N 268'W SEc SW SE Sec. 28-3N-3W	9-18-54	998'
Shulman Brothers	Remmert #5	330'S 330'E NWc NE SE Frac. Sec. 31-3N-3W	5- 5-54	2353'

COLES COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
The Texas Co.	C. L. Miller #1	330'N 330'E SWc NE NE Sec. 1-11N-7E	3- 4-54	2203'
Robert Hurst	Warner #1	330'N 330'W SEc NE SW Sec. 24-11N-10E	7-28-54	1688'
E. P. Jarvis & J. W. Jones	J. W. Jones #6	330'S 1650'W NEc SE Sec. 22-7E-12N	7-23-54	1968'
The Gordon Oil Co	Nellie Freeman #4	332'S 990'W NEc NW NE Sec. 23-12N-7E	10-28-54	1940'
Kenneth Newell	Deuer #1	330'N 330'E SWc NW NE SW Sec. 5-13N-10E	8-10-54	1354'
C. M. Faulkner	Crawford #1	265'S 390'W NEc SE NE Sec. 17-14N-14W	8- 3-54	480'

CRAWFORD COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
The Ohio Oil Co.	Effie Eshelman #1	250'N 290'E SWc SW NW Sec. 33-4N-12W	11-30-54	1511'
J. C. Westfall	Fay Duncan #1	330'S 330'W NEc NW SE Sec. 4-5N-11W	10-22-54	1743'
D. W. Franchot	Brashear #7	200'N 200'E SWc SW SW Sec. 11-5N-11W	6- 2-54	921'
Ashland Oil Refining Co.	S. C. Montgomery OW #2	40'S 560'W NEc SW NW Sec. 15-5N-11W	4-26-54	1021'
Ashland Oil & Refining Co.	S. C. Montgomery #4	180'S 180'W NEc NE NW NW Sec. 15-5N-11W	5- 7-54	987'
Tidewater Associated Oil Co.	S. C. Montgomery #1, Well #2	200'S 200'W NEc SW NW Sec. 15-5N-11W	10-18-54	572'
Ashland Oil & Refining Co.	C. A. & W. L. Dickinson #5	180'N 180'W SEc SE NW SE Sec. 15-5N-11W	5-19-54	993'
Ashland Oil & Refining Co.	C. A. & W. L. Dickinson #18	220'S 220'W NEc NE NW SW Sec. 15-5N-11W	5-22-54	985'
Ashland Oil & Refining Co.	C. A. & W. L. Dickinson #20	110'S 190'W NEc SW NE SW Sec. 15-5N-11W	5-25-54	971'
Ashland Oil & Refining Co.	J. N. Dickinson #5	660'N 120'W SEc NE NW Sec. 15-5N-11W	4-30-54	1022'
Ashland Oil & Refining Co.	J. N. Dickinson #9	150'N 150'S SWc SW SE NW Sec. 15-5N-11W	5- 3-54	1007'

CRAWFORD COUNTY PLUGGING AFFIDAVITS—Continued

Name of operator	Name of well and number	Location	Date plugged	Total depth
Ashland Oil & Refining Co.	J. N. Dickinson #12	105′N 100′W SWc NW SE NW Sec. 15-5N-11W	5- 4-54	988′
Ashland Oil & Refining Co.	J. N. Dickinson #13	220′N 220′E SWc SW SE NW Sec. 15-5N-11W	6- 5-54	992′
Ashland Oil & Refining Co.	J. N. Dickinson #16	220′N 440′E SWc SE NW Sec. 15-5N-11W	6- 1-54	987′
Ashland Oil & Refining Co.	J. N. Dickinson #19	435′S 225′E NWc NW NE NW Sec. 15-5N-11W	5-10-54	999′
Ashland Oil & Refining Co.	C. A. & W. L. Dickinson #1	80′S 330′E NWc SW NW SE Sec. 15-5N-11W	6- 7-54	958′
Ashland Oil & Refining Co.	C. A. & W. L. Dickinson #2	200′N 200′W SWc SW NW SE Sec. 15-5N-11W	6-11-54	964′
Ashland Oil & Refining Co.	C. A. & W. L. Dickinson #7	200′S 200′W NEc SE SE NE Sec. 15-5N-11W	7-22-54	982′
Ashland Oil & Refining Co.	C. A. & W. L. Dickinson #19	220′N 440′W SEc NW SE Sec. 15-5N-11W	6- 2-54	967′
Ashland Oil & Refining Co.	Bennie Stevenson et al #1	660′N 660′E SWc SE SE Sec. 17-5N-11W	8- 9-54	1005′
Ashland Oil & Refining Co.	Chas. H. DeLong "B" #1	660′S 660′W NEc NW NW Sec. 20-5N-11W	2- 1-54	963′
Ashland Oil & Refining Co.	Willard Montgomery #1	660′S 660′W NEc NW Sec. 20-5N-11W	1-18-54	986′
Tide Water Associated Oil Co.	Nat Lindsay #6	203′N 180′W SEc SE NW NW Sec. 21-5N-11W	9- 7-54	1005½′
Tide Water Associated Oil Co.	W. Montgomery #2, Well #4	200′S 218′W NEc NE NW SW Sec. 21-5N-11W	11-23-54	952′
D. W. Franchot & Co.	Nicewander O-4	330′N 330′E SWc NE SE Sec. 21-5N-11W	4-15-54	942′
Jackson & Wrather	John Rich #1	330′N 330′E SWc NE SW Sec. 2-5N-12W	8-25-54	1702′
Ralph C. Halbert	Kamplain #1	330′S 330′W NEc SW NW Sec. 2-5N-12W	7- 1-54	1525′
E. O. Hale & E. F. Atkins	Parker-Bonnell Comm. #1	990′N 330′W SEc NW SW Sec. 3-5N-12W	2-24-54	1440′
E. F. Atkins & E. O. Hale	Ralph Maxwell #1	330′S 330′W NEc SW SE Sec. 3-5N-12W	1-24-54	1525′
E. O. Hale & E. F. Atkins	Weger #1	560′S 330′E NWc SE SE Sec. 3-5N-12W	3-27-54	1570′
J. A. MacDonnell	Esche-Steers, et al Comm. #1	330′S 330′W NEc SW SW Sec. 3-5N-12W	7- 8-54	1680′
E. Constantin, Jr.	Bowen #1	330′N 330′E SWc SE SE Sec. 5-5N-12W	8-13-54	2000′
M. & E. Drilling Co.	Vinnie McSparin #1	330′S 330′W NEc SE NE Sec. 7-5N-12W	8- 1-54	1534′
Edward Gieck	Crum #1	330′N 0′E SEc SW Sec. 8-5N-12W	8-27-54	1624′
Nance & Vivadelli	Willard B. Butcher #1	330′N 330′E SWc NE SE Sec. 8-5N-12W	7-28-54	1575′
E. Constantin, Jr.	Shidler #1	810′N 1677′E SWc NW Sec. 8-5N-12W	9-28-54	1358′
John H. Carlson	Wesley-Mefford #2	330′N 330′E SWc NE NE Sec. 8-5N-12W	9-26-54	1538′
Nance & Vivadelli	Everett Daron #1	330′N 330′E SWc SE SE Sec. 8-5N-12W	5- 9-54	1550′
Nance & Vivadelli	Blanche Butcher et al #2	330′N 330′W SEc SW Sec. 9-5N-12W	11- 1-54	1556′
E. O. Hale & E. F. Atkins	Highsmith #1	330′S 330′W NEc NW NE Sec. 10-5N-12W	2- 3-54	1600′
Skiles Oil Corp.	Mary Conover #1	330′N 330′E SWc SE SE Sec. 12-5N-12W	9-15-54	1662′
Davison & Co.	Stanley Goff, et al #1	330′S 330′W NEc SW NE Sec. 16-5N-12W	12-15-54	1554′
W. L. Pickens	Mace Goff#1	330′N 330′E SWc SE SW Sec. 16-5N-12W	8- 2-54	1707′
Affeld Oil Co.	Walters-Bailey #1 Comm.	330′S 330′E NWc SE Sec. 17-5N-12W	6-14-54	1447′
Dome, Minnick Oil Co.	Martha A. Jewell #1	330′S 330′E NWc NE NE Sec. 17-5N-12W	7-22-54	1609′
A. W. Rea	Bert Mefford #2	330′N 330′W SEc Sec. 17-5N-12W	9- 7-54	1529′
Affeld Oil Co.	L. Mefford #2	330′N 330′E SWc SE Sec. 17-5N-12W	7-26-54	1738′
Walton Drilling Co.	Catherine Duncan et al #1	330′N 330′W SEc NE Frac. NW Frac. Sec. 27-5N-12W	9- 5-54	1622′
W. W. Toler Drilling Corp.	E. Baker #1	330′N 330′E SWc NW NE Sec. 18-5N-12W	6- 3-54	1660′
A. W. Rea	David Gosnell Comm. #1	330′N 330′E SWc SE SW Sec. 18-5N-12W	9-30-54	1634′
Davison & Co.	Aldah Bussard et al #2	330′S 330′W NEc SW Sec. 19-5N-12W	8-26-54	1800′
Olen D. Sharp	L. E. Taylor #1	330′S 330′E NWc NE NW SW Sec. 20-5N-12W	7-26-54	1778′
E. Constantin, Jr.	F. Devee #1	330′S 330′E NWc SW NE Sec. 20-5N-12W	9- 8-54	1632′
Bury Drilling Co.	Lawrence #1	330′S 330′E NWc SE NE Sec. 20-5N-12W	10-18-54	1581′
E. V. Richardson	Cullum #1	330′S 330′W NEc SE NW Sec. 20-5N-12W	8-31-54	1634′
A. C. Stoltz	Ballard #1	330′S 330′W NEc SW NE Sec. 20-5N-12W	11-18-54	1653′

Frank Whittinghill	William D. Flynn #1	330'S 330'E NWc SW NE Sec. 21-5N-12W	9-30-54	1730'
Bury Drilling Co.	Mills #2	330'S 330'E NWc SW NW Sec. 21-5N-12W	9- 2-54	1604'
Olds Oil & Chemical Corp.	Wm. Wesley #1	330'S 330'E NWc NE NW Sec. 24-5N-12W	8- 4-54	1668'
Central Drilling Co.	Omer Waggoner #1	330'N 330'W SEc SW SW Sec. 13-5N-13W	11-22-54	1767'
Perry Fulk	V. Dunlap #1	330'S 330'W NEc Sec. 13-5N-13W	8-23-54	1670'
J. S. Young, Jr.	Ridgeway #1	330'S 330'W NEc SE NE Sec. 18-5N-13W	6- 4-54	1679'
Don Baines	D. Waggoner #1	330'S 330'W NEc SW NE Sec. 23-5N-13W	11- 8-54	2337'
Shakespeare Oil Co., Inc.	Opal Updike #1	330'N 330'E SWc NW Sec. 24-5N-13W	6-17-54	1712'
Ralph C. Halbert	Mark Smith #1	330'S 330'W NEc NW SE Sec. 24-5N-13W	9-18-54	1675'
Big Four Oil & Gas Co.	Clarence Baker #1	330'S 330'E NWc SW NW Sec. 24-5N-14W	6-13-54	2779'
C. S. Cooksey	Patton-Higgins Communitized #1	330'N 330'E SWc SW Frac. ¼ Sec. 18-6N-11W	11-15-51	1512'
The Ohio Oil Co.	W. A. Hope #5	380'N 200'E SWc SW SW Sec. 29-6N-11W	5-20-54	931'
The Ohio Oil Co.	L. N. Tohill a/c 1 #5	600'N 540'E SWc NE NE Sec. 31-6N-11W	5-27-54	918'
Price Dunbar	Midkiff #1	330'N 330'E SWc NW NW Sec. 1-6N-12W	9-20-54	2001'
C. W. Kendall	Walter Smith #1	330'S 525'W NEc SE SW Sec. 13-6N-12W	11-16-54	1600'
Dan Hoagland	B. Folok #1	330'N 330'W SEc SW SE Sec. 14-6N-12W	8-28-54	1654'
W. H. Davison	L. S. Heath #0-14	330'S 330'W NEc SE Sec. 15-6N-12W	3-12-54	1064'
W. H. Davison	L. S. Heath #G-13	20'S 20'E NWc NE SE Sec. 15-6N-12W	3-18-54	1060'
Heath Oil Co.	Heath Oil Co. #1	330'N 330'E SWc NW SE Sec. 15-6N-12W	11-30-54	1534'
Bury Drilling Co.	C. Kaley #1	330'N 330'W SEc SW SE Sec. 16-6N-12W	11-19-54	1005'
Dale Hopkins	Geeseman #2	990'S 330'W NEc NW Sec. 22-6N-12W	9-22-54	1562'
Dale Hopkins	Mills #1	330'N 330'E SWc NW NE Sec. 24-6N-12W	9-12-54	1589'
C. W. & J. E. Kendall	Harry Mills #1	330'S 990'E NWc NE Sec. 24-6N-12W	5- 1-54	1560'
Harold C. Sanders	Thomas #1	330'N 330'W SEc SW SE NE Sec. 25-6N-12W	9- 7-54	1700'
Homer Luttrell	Augustus Garrard #1	990'N 330'W SEc Sec. 30-6N-12W	9- 1-54	1557'
Darrell S. Huddleston	Garrard #1	330'S 330'W NEc NW NE Sec. 30-6N-12W	9-17-54	1393'
Nomo Petroleum Corp.	Highsmith #P-8	330'S 290'E NWc SE SE Sec. 31-6N-12W	9- 8-54	1541'
Charles Zanetis	E. Shaw #2	330'N 330'W SEc SW NE Sec. 32-6N-12W	9-25-54	979'
Hoagland Drilling Corp.	Elhardt #1	330'S 330'E NWc Sec. 33-6N-12W	9-18-54	1603'
Dale Hopkins	McClure #3	330'N 330'E SWc SE NE Sec. 33-6N-12W	10-14-54	3026'
Mt. Carmel Drilling Co.	Meeks Heirs #1	330'S 330'W NEc NW Sec. 35-6N-12W	7- 8-54	2187'
Skiles Oil Corp.	G. Walter Comm. #P-5	330'N 330'W SEc NE NE Sec. 1-6N-13W	6-10-54	1030'
Calvan American	Wall Heirs #1	330'N 330'W SEc NW NE Sec. 9-6N-13W	10-26-54	1016'
B. Mansfield	Whitmen #1	330'N 330'E SWc SE SW Sec. 9-6N-13W	5- 5-54	1001'
Delmar Seward	Dennis #1	330'N 330'E SWc NE SW Sec. 13-6N-13W	12-29-51	1550'
O. P. Cunningham	C. Cunningham #1	330'N 330'W SEc NW NE Sec. 19-6N-13W	9- 6-54	1011'
Gordon Green	Malone #1	430'N 330'W SEc NW Sec. 20-6N-13W	7-15-54	1138'
The Ohio Oil Co.	Major A. Sparks & Wife a/c 1 #1	190'N 150'E SWc SE NW Sec. 23-6N-13W	4-15-51	1010'
The Ohio Oil Co.	J. Lefrois #2	200'S 200'W NEc NW SW Sec. 23-6N-13W	4- 2-54	947'
The Ohio Oil Co.	C. T. Stewart #1	500'S 200'E NWc SW NW Sec. 23-6N-13W	4- 8-54	986'
The Ohio Oil Co.	P. Fowler #1	220'N 220'E SWc NW NW Sec. 26-6N-13W	4- 8-54	930'
The Ohio Oil Co.	M. A. Renchen #16	160'S 640'W NEc SE SW Sec. 26-6N-13W	4-13-54	957'
John F. Tohill	Tohill #OW 4	435'S 378'W NEc NE SE NE Sec. 28-6N-13W	1- 7-54	890'
W. L. Pickens	Stewart Heirs #O. W. #2	570'S 200'W NEc NE NW SE Sec. 28-6N-13W	12-31-54	956'
W. L. Pickens	E. F. Tohill #5	200'N 180'E SWc NE SE Sec. 28-6N-13W	1-20-54	943'
W. L. Pickens	G. H. Stewart #6	225'N 390'W SEc NW SE Sec. 28-6N-13W	11-13-54	958'
W. L. Pickens	G. H. Stewart #12	550'S 390'W NEc NW SE Sec. 28-6N-13W	11- 8-54	953'
Mahutska Oil Co.	John Bailey #1	330'S 330'E NWc Sec. 28-6N-13W	7-17-54	942'
Odis Pattillo	Rosborough #1	330'S 330'W NEc SE Sec. 33-6N-13W	10-12-54	1654'
George Hedges	Fritz #1	330'S 330'W NEc SE NE Sec. 33-6N-13W	10-13-54	981½'

CRAWFORD COUNTY PLUGGING AFFIDAVITS—Concluded

Name of operator	Name of Well and number	Location	Date plugged	Total depth
The Ohio Oil Co.	S. Price Heirs #3	240′N 200′W SEc SE NW Sec. 34-6N-13W	4- 1-54	952′
Tide Water Associated Oil Co.	J. W. Dennis Well #6	196′N 666′W SEc SE NE NW Sec. 34-6N-13W	3- 6-54	998′
Tide Water Associated Oil Co.	J. W. Dennis #10	680′N 197′W SEc NE NW Sec. 34-6N-13W	2-26-54	1008′
Tide Water Associated Oil Co.	J. W. Dennis Well #11	698′N 1187′W SEc NE NW Sec. 34-6N-13W	12-17-54	945′
E. Constantin, Jr.	Frank Richart RP-2	220′S 220′E NWc NE NW Sec. 35-6N-13W	12-31-54	909′
Kenneth C. Bell	Mary H. French #1	330′N 330′E SWc SE SW Sec. 8-7N-11W	11-24-54	1616′
Davison & Co.	Floyd R. King et al #1	330′S 330′E NWc Sec. 13-7N-12W	12- 3-54	2000′
C. L. Farnsworth	Nickell #1	330′S 330′E NWc SW SW Sec. 15-7N-12W	10-18-54	1129′
The Ohio Oil Co.	R. L. Wilson a/c 1 #6	160′N 200′E SWc NW NE Sec. 18-7N-12W	4-19-54	1034′
The Ohio Oil Co.	J. C. Wilson a/c 1 #19	220′S 550′W NEc NE NE Sec. 18-7N-12W	4-21-54	1062′
The Ohio Oil Co.	E. Quick #9	440′S 420′E NWc NE SE Sec. 18-7N-12W	4-22-54	1036′
The Ohio Oil Co.	J. C. Wilson a/c 1 #7	190′N 280′E SWc NE NE Sec. 18-7N-12W	4-30-54	1028′
The Ohio Oil Co.	J. C. Wilson a/c 1 #10	630′S 220′W NEc SW NE Sec. 18-7N-12W	4-29-54	1029′
G. F. Critchfield	Eagleton #1	330′S 330′E NWc SE SW Sec. 23-7N-12W	10- 6-54	982′
Logan Oil Co.	Glen Morrison #8 O-W	180′S 25′W NEc NE SW Sec. 20-7N-12W	4- 3-54	960′
Logan Oil Co.	Glen Morrison #O. W. 11	400′N 660′E SWc NE SW Sec. 20-7N-12W	3-26-54	1051′
Logan Oil Co.	Lester Kirk #2	283′N 1215′W SEc SW Sec. 20-7N-12W	5- 3-54	968′
Frank T. Whittinghill, Jr.	Dorothy J. Crebs #1	330′N 330′W SEc NE SE Sec. 22-7N-12W	10-31-54	1085′
G. F. Critchfield	Goad #1	330′S 330′W NEc SW SW Sec. 23-7N-12W	11-13-54	954′
Joe Travis & C. C. Pearson	Hartlerode & Quick Comm. #1	960.67′N 990′E SWc NW Sec. 29-7N-12W	12-15-54	1081′
Abek, Ben	D. D. Hill OW #6	440′S 220′E SE NW Sec. 2-7N-13W	5- 3-54	1032′
Abek, Ben	D. D. Hill #2	75′S 275′W NEc NE NE SW Sec. 2-7N-13W	5-11-54	1010′
G. Scott Hammonds	Chalon H. Titsworth et al #0-6	330′S 330′W NEc SW SE Sec. 5-7N-13W	10- 5-54	1029′
Midwest Drilling Co., Inc.	Cooley #2	330′S 330′W NEc Sec. 10-7N-13W	11-19-54	1442′
Tide Water Associated Oil Co.	W. A. Howard #17	800′S 635′E NWc NE Sec. 11-7N-13W	12- 7-54	983′
Midwest Drilling Co., Inc.	Cooley #2-B	330′N 330′W SEc NW NW Sec. 11-7N-13W	8-12-54	1012′
Midwest Drilling Co., Inc.	Akeman #2	330′S 345′W NEc NW NW Sec. 12-7N-13W	4-17-54	1060′
Midwest Drilling Co., Inc.	Colbert #1	330′S 330′W NEc SE NW Sec. 12-7N-13W	3-11-54	1078′
The Ohio Oil Co.	J. J. Stentz #5	200′S 660′E NWc NW SW Sec. 15-7N-13W	3- 3-54	937′
Skiles Oil Corp.	G. Walter Comm. #P-1	330′W SEc NE SE Sec. 36-7N-13W	6-11-54	905′
Kenneth Chalfant	Alma Wilson #S-1	330′N 450′W SEc NE Sec. 1-7N-14W	4-28-54	956′
The Ohio Oil Co.	Guy Comly #3	300′S 200′W NEc SE SE Sec. 13-7N-14W	5-18-54	992′
Krohn, Wm. H.	C. H. Wiman 1-A	330′N 330′E SWc SE SW Sec. 18-8N-13W	5-20-54	1136′
E. H. Morris	Killough-Aten #1	30′S 330′W NEc Sec. 24-7N-14W	12-20-54	1085′
C. C. Pearson	Quick Community #1	330′S 330′W NEc SE NE Sec. 30-7S-12W	12-16-54	1871′
S. J. Tucker	L. W. Kennedy #1	330′S 330′E NWc NE Sec. 19-8N-11W	7-12-54	1011′
S. J. Tucker	DeMent #1	390′N 330′W SEc NE NE Sec. Oversized 20-8N-11W	6-21-54	1410′
S. J. Tucker	Colliflower #1	330′S 330′E NWc Sec. 34-8N-11W	3-31-54	1411′
James G. Beard	Bassett #1	330′S 330′E NWc NE SW SE Sec. 5-8N-12W	7-15-54	1028′

Marion H. Dome	Dome-Elliott #1	330'S 330'W NEc SE Sec. 5-8N-12W	10-11-54	1350'
Davis Lambert	Lewis Jackson #1	330'N 330'W SEc NE SE Sec. 7-8N-12W	7 3-54	1001'
Davis Lambert	Victor Donner #1	330'N 330'W SEc SW NW Sec. 8-8N-12W	7-21-54	1523'
Hoagland Drilling Co.	McCrory #1	330'N 990'E SWc SE NW Sec. 9-8N-12W	10-23-54	1495'
Welker Oil Co.	Athey #1	330'S 330'E NWc NE SE Sec. 18-8N-12W	7- 2-54	1253'
Dean Chaney	Harlan Griffith #1	330'N 330'W SEc NW NE Sec. 33-8N-12W	7- 3-54	1462'
Wm. H. Krohn	C. H. Wiman #3	330'N 330'W SEc SW Sec. 18-8N-13W	5-22-54	705'
J. E. Woofter Drilling Co.	Sellars #1	330'S 330'E NWc SW SE Sec. 20-8N-13W	9-16-54	1300'
Midwest Drilling Co., Inc.	Newlin #A-3	330'N 330'W SEc NE Sec. 25-8N-13W	7-31-54	1100'
Kenneth C. Bell	Sackrider Heirs #1	330'N 330'W SEc NW Sec. 26-8N-13W	9-10-54	1545'
Herman Herring	Gwinn #1	330'S 330'E NWc NE NW Sec. 30-8N-13W	5- 3-54	1205'
J. C. Bennett	Victor Baker #1	330'N 330'E SWc NW NE Sec. 35-8N-14W	4-29-54	900'

CUMBERLAND COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Virgil I. Helgen	George Markwell #1	330'S 330'E NWc SW NW Sec. 36-9N-9E	8- 7-54	2703'
Henry H. Ringger	Adam Stewart #2	330'S 330'E NWc SW NW Sec. 2-9N-10E	6-26-54	651'
Henry H. Ringger	Adams Stewart #1	330'S 330'W NEc NW NW Sec. 2-9N-10E	5-27-54	800'
H. F. Robison	Dix #1	330'S 330'E NWc NE NE Sec. 2-10N-7E	4-19-54	2219'
R. J. Stevens	Margaret Ohmen #1	330'S 330'E NWc SE Sec. 19-10N-9E	12-31-54	700'
Forest Oil Corp.	J. Sidwell #6	130'N 215'E SWc SW SW SW Sec. 1-10N-10E	9- 2-54	431'
Forest Oil Corp.	J. Sidwell #8	110'N 70'W SEc SW SW SW Sec. 1-10N-10E	9- 4-54	428'
Forest Oil Corp.	I. Y. Strockbine #2	50'N 270'W SEc SE SE SE Sec. 2-10N-10E	2-15-54	448'
Forest Oil Corp.	I. Y. Strockbine #6	320'N 240'W SEc NE SE SE Sec. 2-10N-10E	3-26-54	437'
Forest Oil Corp.	I. Y. Strockbine #7	160'S 230'W NEc SE SE SE Sec. 2-10N-10E	2-13-54	434'
Forest Oil Corp.	I. Y. Strockbine #9	60'N 10'W SEc SW SE SE Sec. 2-10N-10E	10-15-54	533'
Forest Oil Corp.	I. Y. Strockbine #10	150'S 20'E NWc SE SE SE Sec. 2-10N-10E	10-18-54	467'
Forest Oil Corp.	I. Y. Strockbine #11	240'S 10'E NWc NE SE SE Sec. 1-10N-10E	3-20-54	440'

Operator	Well	Location	Total depth	Date plugged
CUMBERLAND COUNTY				
Forest Oil Corp	I. Y. Strockbine Core Test #BO	30'N 50'W SEc SE SE SE Sec. 2-10N-10E	454'	2-17-54
Forest Oil Corp	S. S. Yanaway #9	180'N 20'E SWc SE SE SE Sec. 1-10N-10E	460'	2-11-54
Forest Oil Corp	S. S. Yanaway #20	200'N 285'E SWc SE SE SW Sec. 1-10N-10E	457'	8- 5-54
Forest Oil Corp	S. S. Yanaway #26	80'N 260'W SEc NE SE SW Sec. 1-10N-10E	452'	3-10-54
Forest Oil Corp	S. S. Yanaway #29	120'N 60'W SEc NW SE SW Sec. 1-10N-10E	455'	3- 8-54
Ryan Oil Co	E. McVey #1	440'N 440'W SEc SW SE Sec. 2-10N-10E	441'	12- 2-54
Forest Oil Copr	S. S. Yanaway #8	30'S 190'E NWc NW NE NW Sec. 12-10N-10E	451'	9- 8-54
John E. Carlson	Dale Lacey #1	330'N 330'W SEc NW Sec. 23-10N-10E	1220'	6-28-54
Juan Petroleum Co	Shore #1	330'S 330'W NEc NW Sec. 24-10N-10E	435'	1-29-54
J. G. Ellis	Etnire #1	330'N 330'E SWc SE Sec. 35-10N-10E	647'	6-29-54
Forest Oil Corp	W. S. Emrich Acct. #8, Well #3	100'N 350'W SEc NE NE SE Sec. 7-10N-11E	510'	11-12-54
Forest Oil Corp	W. S. Emrich Acct. #8, Well #4	60'N 15'E SWc NE NE SE Sec. 7-10N-11E	507'	11-17-54
Anthony V. Stephens	John F. Lawson #1	330'N 330'W SEc NW Sec. 27-11N-7E	2115'	12-15-54
John A. Wojcicki D/B/A, F. & W. Oil Co	H. J. Foss #1	330'S 330'E NWc SW NW Sec. 25-11N-10E	800'	2-19-54
Earnest Kruger	Grant Lee #1	330'S 330'E NWc SE Sec. 26-11N-10E	558'	8-10-54

EDGAR COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
National Associated Petroleum Co	Mason & Cockcroft Comm. #7-A	330'S 330'E NWc Sec. 1-12N-11W	1-21-54	797'
Max Wezelman	Dewey Wheeler #1	990'N 330'W NEc SW SE Sec. 12-12N-14W	12- 8-54	527'
Robert Mountz	J. L. Fell #1	330'N 330'W SEc SW Sec. 6-13N-13W	4-29-54	400'
Robert Mountz	Nellie Fell #1	330'N 990'E SWc NW NE Sec. 7-13N-13W	5-28-54	390'
Earnest Zink	Ben Duzan #4	990'N 330'W SEc SW Sec. 10-13N-13W	5-24-54	476'
Robert Mountz	Zink #1	960'N 580'W SEc SW Sec. 1-13N-14W	5- 1-54	267'
Robert Mountz	Yennawine #1	1400'S 330'E NWc NE NE Sec. 11-13N-14W	7-15-54	450'
Walter W. Henigman	Mildred Houston #1	330'N 330'E SWc SE Sec. 9-14N-13W	10-28-54	453'
C. M. Faulkner	S. T. Carrington #1	353'S 255'W NEc NW Sec. 18-14N-13W	4-12-54	781'
Charles Watters	Jared #1	330'S 330'W NEc SE SE Sec. 19-14N-13W	4-19-54	350'
E. C. Myers	Jared #3	330'S 330'E NWc SW SE Sec. 19-14N-13W	3-22-54	368'
Paris Drilling Co., Inc	Jones #1	330'N 330'E SWc NW SW Sec. 20-14N-13W	5-10-54	460'
Paris Drilling Co., Inc	McConnaha #1	445'S 330'E NWc SE SW Sec. 20-14N-13W	4-24-54	425'
Robert Mountz	Dessie Conley #1	330'S 330'E NWc SW SW Sec. 29-14N-13W	6-10-54	377'

EDWARDS COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Calvert Drilling, Inc	F. R. Johnson et al #1	330'N 330'W SEc NE NW Sec. 1-1N-10E	2- 1-54	3314'
J. H. Miskell	N. O. Betebenner #2	330'S 330'E NWc SW SW NE Sec. 13-1N-10E	11-14-54	2462'
A. Eron	R. E. Reckling #1	330'N 330'E SWc NE Sec. 28-1N-10E	11-21-54	3348'
Sanders & Fye Drilling Co	Hallquist #2	330'S 330'W NEc SE NW Sec. 6-1N-14W	4-30-54	3195'
Paco Petroleum Corp	Clyde Hedrick-Bierhaus #2	330'N 330'E SWc NW SE Sec. 6-1N-14W	3-10-54	3203'
John M. Zanetis	Hasewinkle #1	630'S 330'E NWc Sec. 22-1N-14W	2- 8-54	2971'
George & Wrather Oil Co	Cortrecht-Reisinger-Tiley Comm. #1	330'N 330'E SWc NE Sec. 34-1N-14W	8- 9-54	3023'
Herndon Drilling Co	Walter Tribe #1	330'S 330'W NEc Sec. 23-1S-10E	3-19-54	3371'
Toklan Production Co	T. W. Floyd #1	330'N 330'E SWc SE Sec. 32-1S-10E	12-11-54	3479'
E. H. Morris	Yokel Comm. #1	330'S 330'W NEc SW Sec. 36-1S-10E	7-17-54	3272'
Paco Petroleum Co	Loy Thread #1	330'S 330'E NWc NE Sec. 31-1S-11E	10-20-54	3206'
Richard L. Russell	Mary A. Vieth #1	330'S 330'W NEc SE NW Sec. 9-1S-14W	7-17-54	3084'
Cullum & Lawhead	Bone #5	330'N 330'E SWc NE NW Sec. 19-1S-14W	10-19-54	450'
Henry P. Smith	Harrison #1	330'N 990'E SWc NW SW Sec. 19-1S-14W	11-13-54	3095'
E. A. Obering	James S. Crews #1	990'N 330'W SEc SW Sec. 31-1S-14W	12- 4-54	2286'
Victor R. Gallagher	Lankford-Crackel Comm. #1	330'N 330'W SEc NE Sec. 32-1S-14W	3-14-54	2790'
W. H. Bears	F. Summerfield #1	330'N 330'W SEc NE Sec. 31-2N-11E	12- 8-54	3248'
Don Baines	C. Woods #1	990'N 300'E SWc NE Sec. 24-2S-9E	4-17-54	3381'
Virgil I. Helgen	H. L. Fewkes #1	330'N 330'W SEc NE NE Sec. 1-2S-10E	3- 6-54	3170'
E. A. Obering	Potter #1	330'S 2260'E NWc Sec. 4-2S-10E	8-26-54	3410'
New Illinois Mid-Continent Oil Co	Winnie Chalcraft #1	330'S 330'E NWc NE SW Sec. 6-2S-10E	11-18-54	3400'
Don Baines	Balding-Albion Brick Co.—Gillard Comm. #1	330'S 330'W NEc NW SE Sec. 11-2S-10E	10-20-54	3330'
Calvert Drilling, Inc	Kate Ellen #1	330'N 330'W SEc NE SW Sec. 12-2S-10E	3- 6-54	3232'
New Illinois Mid-Continent Oil Co	Harris-Woods Comm. #2	330'S 330'W NEc NW NE Sec. 18-2S-10E	9- 6-54	3342'
New Illinois Mid-Continent Oil Co	Frank Woods #1	330'N 330'W SEc SW SW Sec. 18-2S-10E	10-22-54	3390'
McKelvey & Sipoha	Clyde Walton #1	330'N 330'E SWc NE Sec. 23-2S-10E	8-20-54	3231'
Calvert Drilling, Inc	Alva Wick #1	330'N 330'E SWc NW NE Sec. 25-2S-10E	5- 9-54	2200'
New Illinois Mid-Continent Oil Co	Ella J. Pierce et al #1	330'S 330'W NEc SE SE Sec. 31-2S-10E	12-14-54	3332'
New Illinois Mid-Continent Oil Co	Cullison-Veith et al #1	330'N 330'E SWc NW NW Sec. 32-2S-10E	10-19-54	3319'
New Illinois Mid-Continent Oil Co	Albert C. Smith #B-1	330'S 330'E NWc SE SE Sec. 34-2S-10E	11- 6-54	3364'
Service Drilling Co	Broster #1	330'S 330'W NEc Sec. 30-2S-11E	6-20-54	3138'
Eastern Petroleum Co	Fewkes #1	330'N 330'W SEc NE Frac. SW Sec. 6-2S-14W	5- 6-54	3182'
E. H. Morris	Mossberger #2	330'N 450'E SWc SE SW Sec. 34-2S-14W	5-30-54	1125'
New Illinois Mid-Continent Oil Co	Oscar Tait #1	330'N 330'W SEc SW SW Sec. 5-3S-10E	11- 1-54	3318'
Katheryn Cooper	Bunting #1	330'N 330'W SEc NE NW Sec. 9-3S-10E	12-22-54	3422'
The Noah Petroleum Co	Royal Knight #1	330'N 330'E SWc NE NE Sec. 14-3S-10E	11-16-54	3268'
E. H. Morris	Mossberger #3	330'S 330'E NWc E½ W½ Sec. 3-3S-14E	6-21-54	2755'

EFFINGHAM COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
The Texas Co.	L. J. Compton #1	990'S 330'W NEc NW SW Sec. 1-6N-5E	12-12-54	2574'
Partlow & Cochonour	Omar Kraas "B" #1	330'N 430'E SWc Sec. 2-6N-6E	9-26-54	2740'
Robert H. Robben	Horath #1	430'N 430'W SEc Sec. 3-6N-6E	10- 5-54	2742'
Partlow & Cochonour	C. A. Davis #1	330'S 330'W NEc SW Sec. 3-6N-6E	12-10-54	2673'
Partlow & Cochonour	Hoffman #1	330'S 330'W NEc SE SE Sec. 10-6N-6E	10-25-54	2723'
Aurora Gasoline Co.	L. A. Horath #1	330'N 330'E SWc SE NW Sec. 11-6N-6E	7-20-54	2783'
Partlow & Cochonour	E. Willison #1	330'N 330'E SWc NE SW Sec. 11-6N-6E	4-25-54	2746'
Partlow & Cochonour	Willison #2	660'N 330'E SWc Sec. 11-6N-6E	10-15-54	2755'
Theodore R. Lindsay	Fred Goeckner #1	330'S 330'W NEc Sec. 29-7N-7E	10-25-54	2860'
Leo Ervin et al.	Dammermann #1	100'S 420'E NWc NW NW SW Sec. 18-8N-4E	12-18-54	1559'
Murvin & Steber	W. Haarman #1	330'N 330'W SEc NW SW Sec. 32-8N-6E	9- 7-54	2679'
Jet Oil Co.	John Nosbisch #1	330'S 430'E NWc SW SW Sec. 27-8N-7E	3- 5-54	2667'
W. W. Toler Drilling Corp.	Ferd H. Zerrusen #1	330'N 990'E SWc SE Sec. 28-8N-7E	4- 2-54	2659'
James L. Schaefer	Anna Overbeck #1	330'N 330'W SEc NE NE Sec. 28-8N-7E	3-23-54	2650'
William D. Griffin	John Drees #2	330'S 330'E NWc NE NE Sec. 33-8N-7E	4- 5-54	2646'
Wm. Griffin	John Drees #1	660'N 330'E SWc SE NE Sec. 33-8N-7E	2-24-54	2678'
Walter Duncan	Tony Waldhoff #1	330'S 330'E NWc Sec. 34-8N-7E	2-25-54	2680'
W. T. Frederking and A. P. Wagemann	Lilly #1	330'N 330'E SWc NE NE Sec. 20-9N-4E	6-24-54	1860'
R. H. Troop	Paul Trinkle #1	330'S 330'E NWc NE SE NW Sec. 30-9N-4E	11-21-54	1646'

FAYETTE COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
D. B. Lesh Drilling Co.	Carl Easton #1	330'S 330'W NEc SE Sec. 16-4N-1W	12-28-54	1417'
Harry Mabry	Henry Bingaman #1	330'N 330'E SWc SE Sec. 2-5N-1W	11-11-54	2930'
Central Oil Producer's, Inc.	Fred Smail #1	330'N 330'W SEc NW Sec. 25-6N-2E	8-29-54	1640'
The Texas Co.	A. H. Yakel #5	SE¼ SW¼ Sec. 6-6N-3E	5-20-54	1574'
The Texas Co.	A. H. Yakel #12	NW¼ SW¼ SE¼ Sec. 6-6N-3E	5-24-54	1582'
The Texas Co.	A. H. Yakel #1	330'S 330'E NWc NE SW Sec. 6-6N-3E	5-21-54	1572'
Carter Oil Co.	Nora Townsted #4	330'S 330'W NWc NW NW Sec. 7-7N-3E	10-29-54	1597'
The Texas Co.	O. Kepner NCT 1, Well #4	245'S 300'W NEc NW SW Sec. 33-7N-3E	5-20-54	1577'
H. F. Robison	Jasper Smith #1	330'N 330'W SEc NE Sec. 33-8N-2E	8-27-54	1963'
The Carter Oil Co.	John McFadden #10-7W	50'S 50'W NEc SW SW Sec. 10-8N-3E	11-28-54	1609'
The Carter Oil Co.	F. R. Dove #15-6	50'S 50'E NWc NW SW Sec. 15-8N-3E	10-22-54	1493'
The Carter Oil Co.	Syntha Hopper #22-7	50'N 50'E SWc NE SW Sec. 22-8N-3E	11- 3-54	1499'
The Carter Oil Co.	M. Williams #22-8	50'N 70'E SWc NE SE Sec. 22-8N-3E	9-22-54	1510'
The Carter Oil Co.	John Hogan #27-3	50'N 50'W SEc NW NW Sec. 27-8N-3E	9-28-54	1575'

Sun Oil Co	Newcome #1	50'N 100'E SWc Sec. 11-8N-1W	5-10-54	350'
Sun Oil Co	Scott Buckingham #1	100'N 220'E SWc SE NW Sec. 12-8N-1W	6- 1-54	105'
Sun Oil Co	Scott Buckingham #2	100'N 275'W SEc NW Sec. 12-8N-1W	5-31-54	170'

FRANKLIN COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Artnell Co	Philips #4-B	330'N 330'E SWc Sec. 16-5S-2E	3-25-54	2813'
Artnell Co	Harrison #1-B	330'S 330'E NWc NE Sec. 32-5S-2E	1-25-54	2884'
Fletcher F. Farrar	Denzil Taylor #1	330'N 330'W SEc SW NE Sec. 4-5S-3E	10-10-54	2984'
Fletcher F. Farrar	Denzil Taylor #2	330'N 330'E SWc SE NE Sec. 4-5S-3E	10- 1-54	3000'
Drs. Hill & Johnson	Winemiller-Taylor Comm. #1	330'S 330'E NWc SE NW Sec. 4-5S-3E	8- 5-54	3010'
Theodore A. Lindsay	Hinman Al #1	330'N 330'W SEc SE SW Sec. 18-5S-3E	6-21-54	2527'
Theodore A. Lindsay	Jungbecker #1	330'S 330'W NEc NE NW Sec. 19-5N-3E	6-18-54	2299'
Nash Redwine	Beaty #1	330'N 330'W SEc SW Sec. 28-5S-3E	10-25-54	3004'
Aurora Gasoline Co	U. S. Steel Co. #3	330'N 330'W SEc NE NE Sec. 32-5S-3E	12-20-54	2947'
Bond D. Jones	Overtruf #1	330'N 330'W SEc NE NE SE Sec. 10-5S-4E	10-21-54	3340'
Shulman Brothers	Snider et al #1	330'N 330'E SWc SE Sec. 23-6S-1E	11-26-54	2745'
Shulman Brothers	Snider #1	330'S 330'W NEc SE NW Sec. 26-6S-1E	12-14-54	2837'
Stewart Oil Co.—Moses & Stewart	Carter-Isaacs #1	330'S 330'E NWc Sec. 22-7S-4E	7- 4-54	3253'

GALLATIN COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Thomas S. Doran	McKenzie-Pankey Comm. #1	330'S 190'W NEc Sec. 19-7S-8E	7-14-54	2668'
Thomas S. Doran	Pankey Unit "C" #1	330'N 330'W SEc NE Sec. 19-7S-8E	10- 8-54	2699'
George & Wrather Oil Co	McKenzie #1	330'S 330'W NEc NW NW Sec. 20-7S-8E	10-14-54	2686'
Walter Duncan	Fred Shain #1	330'S 330'E NWc SE NW Sec. 20-7S-8E	1-18-54	3151'
Wayne Misener Drilling Co	Mattie E. Phipps #1	330'S 330'E NWc NE Sec. 20-7S-8E	11-23-54	2717'
Thomas S. Doran	Walter H. McKenzie #2	330'N 330'W SEc NW NW Sec. 20-7S-8E	12-27-54	2676'
George & Wrather Oil Co	Pankey #4	330'N 330'W SEc NE NW Sec. 20-7S-8E	1-23-54	2771'
George & Wrather Oil Co	McKenzie #2	330'S 190'E NWc NW Sec. 20-7S-8E	7-31-54	2677'
Clark & Clark	Lela G. Steele #1	330'S 330'W NEc NW SE Sec. 21-7S-8E	5-29-54	2950'
Skiles Oil Corp	H. J. Meyer #1	330'N 330'W SEc NW Sec. 21-7S-8E	11- 8-54	3056'

D. H. Lovelace Drilling Co	Albert Mills #1	330'S 330'W NEc SW SE Sec. 24-7S-8E	11- 7-54	3035'
Olen D. Sharp	James L. Bruce #1	330'S 990'W NEc SW SE Sec. 29-7S-8E	2- 7-54	2907'
Falcon Oil Corp	Tom Sparrow, Jr. #1	990'S 330'W NEc Sec. 25-7S-9E	11- 8-54	3034'
C. E. Brehm Drilling & Producing	Marshall C. Wiseheart et al #2	330'N 330'E SWc NE Sec. 27-7S-9E	3- 2-54	2912'
M. W. Drilling Co	Lee Mills #5	330'S 380'W NEc SE NW Sec. 28-7S-9E	3-14-54	2678'
Calvert Drilling, Inc	Sanders #3	330'S 330'E NWc Sec. 28-7S-9E	1-20-54	2700'
Q. B. Mitchell	Goforth Heirs #1	330'S 330'E NWc SW Sec. 28-7S-10E	9- 7-54	2814'
C. A. Richey	A. Overton #1	330'S 330'W NEc SE NE Sec. 17-8S-8E	9- 3-54	484'
Felmont Oil Corp	Josiah M. Jackson #1	330'S 1035'E NWc SW Sec. 24-8S-8E	2-20-54	2921'
Thomas S. Doran	Henry James #1	330'N 330'E SWc Sec. 29-8S-8E	6- 7-54	3035'
Mayhew Oil Co., Inc	Clarence Mills #1	330'S 330'E NWc SE SE Sec. 5-8S-9E	12- 8-54	2708'
Sohio Petroleum Co	Downen #1	330'N 330'W SEc NW NE Sec. 11-8S-9E	3-16-54	2176'
Herndon Drilling Co	G. L. Jones #2	330'N 330'E SWc NE SW Sec. 11-8S-9E	4-20-54	1252'
Ashland Oil & Refining Co	Feliz Foster #5	330'S 330'E NWc NE Sec. 11-8S-9E	12- 6-54	3000'
Nation Oil Co	Westhaelinger #1	330'N 330'E SWc SE Sec. 12-8S-9E	1- 8-54	2948'
H. E. Howard & J. V. Howell	Millie Mills #2	330'N 330'W SEc NW SE Sec. 26-8S-9E	1-25-54	1618'
Felmont Oil Corp	Fannie Drone et al #1	330'N 330'W SEc SE SE Sec. 35-8S-9E	9-17-54	2969'
Natural Resources, Inc	Big Barn #31	330'N 330'W SEc SW Sec. 2-8S-10E	3-15-54	2887'
C. E. Brehm	G. T. Murphy #1	330'N 330'W SEc NE SW Sec. 4-8S-10E	4-29-54	2927'
Coy Oil Co	Moye #1	330'S 330'E NWc NE Sec. 6-8S-10E	5-23-54	2903'
C. E. Brehm Drilling & Producing	Joseph C. Lightner et al #2	330'S 330'W NEc NW Sec. 7-8S-10E	10-18-54	2938'
Clark & Clark	Hughes #1	NEc SW NE Sec. 9-8S-10E	8- 6-54	2253'
N. E. Marshall	David T. Beverly #1	330'S 330'W NEc NW Sec. 17-9S-8E	11-24-54	2688'
W. C. McBride, Inc	Bluford W. Logsdon #1	330'S 330'W NEc SW NE Sec. 1-9S-9E	2- 1-54	2860'
Vandenbark-McGuire Drilling Co	Hall-Clayton #2	330'S 330'W NEc SW NW Sec. 22-9S-10E	2-18-54	2732'

GREENE COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
John W. Rudy	H. E. Gilmore Estate #1	330'N 330'W SEc SW Sec. 10-12N-10W	12-17-54	1232'
John S. Adams	Hallock #1	330'S 330'W NEc SE NW Sec. 15-12N-13W	10-16-54	690'

WELLS PLUGGED IN 1954

Operator	Well	Location	Total depth	Date plugged
HAMILTON COUNTY				
Blackwood & Nichols Co.	G. A. Muehlenbein #1-3	330'N 330'E SWc NE SW Sec. 3-4S-6E	3530'	7- 9-54
Coy Oil, Inc.	Birdie R. Gray, Trustee #2	990'S 330'W NEc Sec. 1-4S-7E	3412'	10-18-54
E. J. Cunningham	A. A. & J. A. Lynch #1	330'S 330'W NEc SE NW Sec. 10-4S-7E	3447'	7-18-54
W. O. Allen	Emma Cunningham #1	330'N 330'W SEc Sec. 13-4S-7E	3564'	12-21-54
The Nation Oil Co.	Patton #1	330'N 330'W SEc NW Sec. 18-4S-7E	3428'	11- 2-54
The Nation Oil Co.	Redmon #2	330'N 330'E SWc NE SW Sec. 18-4S-7E	3421'	10-30-54
A. W. Cherry	R. E. Miller #1	330'S 330'E NWc NE¼ SE¼ Sec. 21-4S-7E	3350'	10-30-54
A. W. Cherry	Luther Upton #2-A	330'N 330'E SWc SE SW Sec. 21-4S-7E	3363'	8-13-54
A. W. Cherry	J. M. Tittle et al #1	330'N 330'E SWc SE Sec. 21-4S-7E	3542'	8- 3-54
Gulf Refining Co.	Gilbert Walden #1	330'S 330'W NEc NW Sec. 31-4S-7E	3629'	8- 3-54
White & Vickery	Friel #2-B	330'N 385'E SWc NE SE Sec. 34-5S-6E	2748'	5- 6-54
White & Vickery	Mary E. Friel #1-B	330'N 345'W SEc NE SE Sec. 34-5S-6E	2685'	6-18-54
Mammoth Producing Corp.	Betty Jackson #2	400'S 50'E NWc SW NW Sec. 35-5S-6E	3050'	1-27-54
Kingwood Oil Co.	Fred Morris #6	130'S 45'E NWc NW SW Sec. 35-5S-6E	3044'	2-15-54
Toklan Production Co.	Roscoe South #1	330'N 330'W SEc NW Sec. 1-5S-7E	3555'	12-22-54
The Texas Co.	R. G. Phipps #1	330'S 330'E NWc SE¼ SE¼ Sec. 8-5S-7E	3523'	12-10-54
Artnell Co.	C. O. Draper & L. H. Green #1	330'N 330'W SWc SW NE Sec. 9-5S-7E	3545'	7- 3-54
Artnell Co.	J. W. Moore & E. S. Hall #1	330'N 330'E SWc SE NW Sec. 9-5S-7E	3445'	7-22-54
National Associated Petroleum Co.	Robert Payne #1	990'S 330'E NWc Sec. 13-5S-7E	3483'	4- 1-54
National Associated Petroleum Co.	Dan P. Campbell #1	330'S 330'W NEc SE SW Sec. 22-5S-7E	3529'	3-25-54
Stewart Oil Co., Moses & Stewart	Roy Cox #1	300'N 330'E SWc NW SE Sec. 1-6S-5E	3170'	9-11-54
Stewart Oil Co.	Val Harrelson #1	330'N 330'W SEc NW Sec. 15-6S-5E	3335'	4- 1-55
Tri-State Casing & Pulling Co.	Smith-Tucker Unit #1	330'N 330'W SEc NE NE Sec. 24-6S-5E	3302'	3- 8-54
G. L. Reasor	Thomas McGhee "B" #2	330'N 330'E SWc SW SE SW Sec. 33-6S-5E	3857'	6- 3-54
The Texas Co.	G. G. Edwards #6	310'S 330'W NEc SE NE Sec. 3-6S-6E	3050'	12-16-54
Calvert Drilling Co.	Joe Trout #1	330'S 330'W NEc SW NE Sec. 8-6S-6E	3185'	3-25-54
Stewart Oil Co.	Tom Moore #1	330'S 330'W Sec. 10-6S-6E	3301'	7-17-54
C. E. Brehm Drilling & Producing Co.	Barney Lager et al #3	330'N 330'W SEc SW¼ NE¼ Sec. 10-6S-6E	3120'	9-19-54
Stewart Oil Co., Moses & Stewart	Tom Moore #1	330'S 330'W NEc SW Sec. 10-6S-6E	3301'	7-17-54
Chris Pearson	Eva Short #1	660'N 660'E SWc SE SW Sec. 12-6S-6E	3104'	11- 6-54
Calvert Drilling, Inc.	Edwin Douglass #1	370'N 330'W SEc SW Sec. 21-6S-6E	3350'	7-26-54
Hubert E. Howard & J. V. Howell	W. R. Forman #1	330'N 330'W SEc NW Sec. 36-6S-6E	3152'	1-22-54
Nash Redwine	Hazel Tyler #1	330'S 330'E NWc SW NW Sec. 1-6S-7E	3383'	7-10-54
Omar W. Minton, Jr.	Young Heirs #1	330'N 330'E SWc NW Sec. 18-6S-7E	3127'	3-20-54
Blackwood & Nichols Co.	Frank Warren #1-24	330'N 330'W SEc NW SE Sec. 24-6S-7E	3360'	7-20-54
Carter Oil Co.	James H. Van Winkle #1	330'S 330'W NEc NE NE SW Sec. 27-6S-7E	1769'	1-16-54
Coy Oil, Inc.	Sam H. Woody et al #1	990'S 330'E NWc NE NW Sec. 34-6S-7E	3312'	3-22-54
Bartmes-Pollock Oil Co.	Frank Carlyle #1	120'S 695'E NWc SE NW Sec. 15-7S-4E	3138'	12-16-54
C. E. Brehm	Mary Ward Hart et al #2*	330'N 330'W SEc Sec. 8-7S-5E	3263'	8- 9-54
Waller J. McGlasson	Richard Johnson #1	330'S 330'W NEc SW SW Sec. 8-7S-5E	3337'	3-15-54

WELLS PLUGGED IN 1954—Concluded

Operator	Well	Location	Total depth	Date plugged
HAMILTON COUNTY—Concluded				
C. E. Brehm Drilling & Producing	Lillian Bundy #2	330′S 330′E NWc SW SW Sec. 9-7S-5E	3303′	5-19-54
C. E. Brehm Drilling & Producing	Hogan-Wooldridge et al Comm. #1	330′S 330′E NWc NE NE Sec. 12-7S-5E	3256′	2-12-54
W. C. McBride, Inc	W. E. Cotter #1	330′S 330′E NWc SW NW Sec. 13-7S-5E	3461′	4-18-54
Thomas S. Doran	Wettaw #1	330′S 330′W NEc SW Sec. 14-7S-5E	3458′	9-15-54
C. E. Brehm Drilling & Producing	Madge M. Blackburn et al #1	330′S 330′E NWc NE¼ Sec. 16-7S-5E	3369′	9-10-54
T. G. Hill	Carlyle and Gunter #1	330′S 330′E NWc NE¼ NE¼ Sec. 18-7S-5E	3249′	11-25-54
C. E. Brehm Drilling & Producing	Douglass-Deen Comm. #1	330′S 330′E NWc SW Sec. 5-7S-6E	3371′	2- 4-54
Paco Petroleum Co	O. Roberts, Jr #1	330′N 330′E SWc NE SW Sec. 9-7S-6E	3129′	6- 5-54
Calvert Drilling, Inc	Hubert Howard "B-1"	990′S 330′E NWc NE Sec. 16-7S-6E	3294′	5-20-54
Pep Drilling Co	T. M. Davis #1	330′N 330′E SWc NW Sec. 13-7S-7E	3162′	5-29-54
Davis-Menhall Drilling Co., Inc	Laura Donley #1	330′S NWc NE¼ NE¼ NW¼ Sec. 15-7S-7E	3278′	8-20-54

HANCOCK COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
C. M. Faulkner	Anna Roberts #1	630′S 540′W NEc NW Sec. 24-4N-5W	2-14-54	465′

HARDIN COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
W. O. Lucas	Elsie Herrin #1	330′S 330′E NWc Frac. Sec. 11-12S-10E	6-20-54	1501′

JACKSON COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
William H. Youngblood	Rickenberg #1	1221'S 668'E NWc NE Sec. 11-7S-4W	11-23-54	580'
Calvert Drilling, Inc.	Heiple #1	1650'N 1650'E SWc NW Sec. 10-8S-1W	10-22-54	2382'
F. L. Rigney	Gutermuth #1	330'S 330'E NWc NE NE NE Sec. 26-8S-5W	11-19-54	1940'
F. L. Rigney	Twenhafel #1	601'N 525'W SEc NW NE Sec. 26-8S-5W	2-19-54	1000'

JASPER COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Nathan C. Davies	Wm. Volk #1	330'S 330'E NWc SE Sec. 12-5N-8E	7-23-54	3200'
Don Slape Drilling Co.	H. Sewers et al #1	330'N 330'E SWc NW Sec. 1-5N-9E	11-26-54	3055'
Boyd & Brown	Fehrenbacher #1	330'N 330'W SEc SE NW Sec. 3-5N-9E	4-22-54	3083'
Lloyd Kennedy	J. J. Brown #1	330'N 330'E SWc SW NW NE Sec. 5-5N-9E	4-11-54	3170'
Felix Jablonski	Sam Brown #1	660'N 330'W SEc SW SE Sec. 12-5N-9E	12-14-54	2980'
John M. Zanetis	Postle #1	330'N 1650'W SEc SW Sec. 12-5N-9E	6-17-54	3020'
Don Slape Drilling Co.	Waddell et al #1	330'S 330'W NEc SE SE Sec. 13-5N-9E	11-13-54	2990'
M. M. Spickler & G. B. Kiser	Ben Bollman #1	330'S 330'E NWc SW SW Sec. 13-5N-9E	11-15-54	3600'
The Pure Oil Co.	C. C. Byrnes #1	666.9'S 992'E NWc SW Sec. 8-5N-10E	5- 3-54	2830'
Harold W. Brinkley	F. A. Zuber #1	330'N 330'E SWc SE NW Sec. 9-5N-10E	11-30-54	2823'
The Pure Oil Co.	Lill Hall #2	670'S 994.7'E NWc SW Sec. 17-5N-10E	5- 6-54	2825'
E. Novak	L. Shryock #1	660'S 330'W NEc NE SE Sec. 6-5N-14W	12-11-54	2848'
Don Slape Drilling Co.	H. E. Specht #1	330'N 330'W SEc Sec. 25-6N-9E	11-22-54	2988'
Hunt & Associates Properties	Hunt #2	330'N 330'W SEc Sec. 36-6N-9E	12-10-54	3005'
Pure Oil Co.	Bergbower Cons. #D-1	330'S 660'E NWc SW NE Sec. 4-6N-10E	2- 2-54	2810'
Pure Oil Co.	Raphael Bergbower-A #1	660.7'S 330'W NEc NE SE Sec. 16-6N-10E	2- 5-54	2882'
Calvert Drilling, Inc.	George Kistner #2	330'S 330'E NWc NE SE Sec. 29-6N-10E	12- 6-54	2880'
Don Slape Drilling Co.	S. Bigard #1	330'S 330'E NWc NE NW Sec. 30-6N-10E	12-23-54	2931'
Don Slape Drilling Co.	D. Cooley et al #1	330'S 330'E NWc SW Sec. 31-6N-10E	12- 9-54	3003'
Burr Lambert	Frank Groth #1	660'S 330'E NWc Sec. 10-7N-8E	6-18-54	3005'
Sanders-Fye Drilling Co.	Wyatt #1	330'S 2310'E NWc NE Sec. Frac. 6-7N-10E	4-21-54	2793'
Continental Oil Co.	G. E. McCoy #1	2536'N 1650'W NWc Sec. 4-7N-14W	1-24-54	1848'
D. B. Lesh Drilling Co.	Bertha Gray #1	330'N 385'W SEc NE Sec. 17-8N-9E	11-28-54	2798'
Harry D. Mark	Leamon #1	330'N 990'E SWc Sec. 4-8N-14W	1-14-54	1390'

JEFFERSON COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Nick Babare	Plassman #1	Lot 6, Blk. 38 Sec. 18-1N-1E	4-29-54	1204′
C. M. Faulkner	Hardy #1	330′N 330′E SWc NW SW Sec. 6-1S-1E	12-19-54	900′
Magnolia Petroleum Co.	Stonecipher #1	257′S 246′E NWc NW SE NE Sec. 9-1S-1E	8-24-54	2079′
Leo Dare	L. D. Miller #2	330′N 330′W SEc SW Sec. 19-1S-1E	9-17-54	1112′
Kenneth M. Bayer	O. J. Bundy #1	330′N 330′W SEc NE Sec. 24-1S-1E	11-29-54	2143′
Gulf Refining Co.	J. H. Shafer #3	330′N 330′E SWc NE SE Sec. 13-1S-3E	7-31-54	2850′
Gulf Refining Co.	J. H. Shafer #1	644′S 344′W NEc SE Sec. 13-1S-3E	8- 6-54	2921′
N. V. Duncan	Alice Whitlock #1	330′N 330′E SWc SE Sec. 16-1S-3E	12-23-54	2807′
Cullum & Lawhead	Allie Whitlock #1	330′N 660′E SWc Sec. 16-1S-3E	6-26-54	2755′
Theodore B. Glass	F. E. McDaniel #1	330′S 330′W NEc SE NE Sec. 20-1S-3E	6-14-54	2677′
Gulf Refining Co.	Maggie #1	330′S 330′E NWc NE SE Sec. 21-1S-4E	10- 4-54	2781′
The Texas Co.	K. Bayer NCT-1 #5	330′N 330′W SEc NW SE Sec. 23-1S-3E	6-14-54	2693′
Webster & Perrine	W. B. Fields #1	330′S 330′E NWc SW Sec. 24-1S-3E	9-22-54	2764′
E. Homer Jahn	Pearl Minor #1	330′S 330′E NWc Sec. 25-1S-3E	11-26-54	2859′
John F. Dunnill	Richard M. Ratliff #1	330′S 330′W NEc SW Sec. 27-1S-3E	6- 4-54	2800′
John F. Dunnill	Howard Minor #1	330′N 330′E SWc NE NE Sec. 27-1S-3E	3-20-54	2805′
Louis Kapp	Colwell #1	405′N 330′E SWc NW SE Sec. 17-1S-4E	5-13-54	2729′
Louis Kapp	John W. Sledge #1	330′S 405′W NEc NW NW Sec. 21-1S-4E	6-19-54	2780′
F. L. Strickland	McDuffey-Champ Comm. #1	330′S 330′E NWc NE NW Sec. 11-2S-1E	7-13-54	2111′
E. F. Atkins & E. O. Hale	R. I. Grissom #1	330′S 330′W NEc NE SE SE Sec. 13-2S-1E	12- 8-54	2173′
Blalack & Walter	Albert German #1	981′S 573′W NEc NW SW Sec. 15-2S-1E	11-24-54	2195′
Albert Gentles	Clyde Wood #1	330′S 330′W NEc SE Sec. 15-2S-1E	9- 3-54	2314′
Leo Dare	T. J. Harvey #1	660′S 330′E NWc NE SW Sec. 22-2S-1E	10- 7-54	2226′
Leo Dare	J. E. Wilson #1	330′S 330′W NEc SW NE Sec. 28-2S-1E	8-16-54	2268′
Magnolia Petroleum Co.	Ida Shirley #3 D. D.	330′N 330′E SWc NE SE Sec. 35-2S-1E	4- 6-54	2116′
The Texas Co.	E. S. Eubank #1	330′N 330′E SWc NW SE Sec. 35-2S-1E	11-19-54	3713′
Warren Loar	Troutt #1	330′S 330′E NWc SE Sec. 5-2S-2E	12- 7-54	2116′
W. H. Tatro	George Wagmann #2	2529′S 330′E NWc Sec. Oversized 18-2S-2E	7- 8-54	2354′
W. H. Tatro	George Wegmann #1	330′S 330′W NEc SW NW Sec. 18-2S-2E	7- 8-54	2323′
William H. Krohn	Ohms #1	330′N 330′E SWc NE Sec. 22-2S-2E	12-11-54	2787′
Theodore R. Lindsay	Altha Brooks #1	330′N 330′W SEc NE Sec. 4-2S-4E	1-13-54	3041′
Thomas S. Doran	Rolland Maxey #1	330′S 330′E NWc SW SE Sec. 5-2S-4E	8-23-54	2970′
R. L. Russell	Austin Staley & K. K. Chase #1	330′S 330′E NWc SW SW Sec. 7-2S-4E	5-31-54	2974′
C. R. Brehm Drilling & Producing	Clarence H. Holloway #1	330′N 330′W SEc SW NE Sec. 13-2S-4E	5-27-54	3060′
Fletcher F. Farrar	Wood Unit #2	670′S 330′E NWc SE Sec. 13-2S-4E	5-16-54	3094′
Theodore R. Lindsay	Kirkpatrick Unit #1	330′S 330′W NEc NE NW SE Sec. 30-2S-4E	5-21-54	3138′
Leo Dare	J. H. Carr #1	330′S 330′W NEc Sec. 12-3S-2E	4- 2-54	2735′
Leo Dare	J. W. Dare #1	660′N 330′W SEc SW NE Sec. 22-3S-2E	1-28-54	2761′
Slivka & Son	Leslie Hyde, et al #1	330′N 330′E SWc NW SW Sec. 35-3S-2E	5-24-54	2842′
McGaw & Hughes Petroleum Co.	Morris Yost #1	990′N 330′W SEc Sec. 7-3S-3E	5-30-54	2685′
National Associated Petroleum Co.	Knox Gee #1	990′N 660′W SEc NE Sec. 7-3S-3E	6-28-54	2728′
C. E. Brehm Drilling & Producing	H. Cowger et al #1	330′N 330′W SEc NE NW Sec. 11-3S-3E	9-28-54	2944′
F. L. Strickland	Bailey-Estes Comm. #1	330′S 330′W NEc SE Sec. 15-3S-3E	9- 3-54	3006′
National Associated Petroleum Co.	Harry P. Crouch #1	330′S 330′W NEc SW SE Sec. 16-3S-3E	3-13-54	2965′

Robert E. Thorpe	A. W. Modert et al #1	330'N 330'E SWc SE SW Sec. 22-3S-3E	7- 8-54	2771'
Edward T. Robinson	Marsh Harpole et al #1	330'S 330'W NEc NW SW Sec. 22-3S-3E	6-26-54	2785'
Albert Gentles	Todd P. Ward #3	330'N 330'E SWc NW SE Sec. 27-3S-3E	7-27-54	2754'
Frank L. Strickland	Maxey-Grant #1	330'N 330'E SWc SE NE Sec. 27-3S-3E	4-12-54	2894'
Albert Gentles	Todd P. Ward #2	330'N 330'W SEc SW SE Sec. 27-3S-3E	3-17-54	2887'
Frank Strickland	Maxey-Grant #2	330'N 330'E SWc NE NE Sec. 27-3S-3E	6-21-54	2809'
Albert Gentles	U. S. Government #1	330'N 330'E SWc NE SE Sec. 27-3S-3E	5- 4-54	2828'
F. L. Strickland	Johnson & Whitlock Comm. #1	330'N 330'E SWc NW NW Sec. 27-3S-3E	5- 7-54	2729'
Eber McEndree	McKenzie #A-1	330'S 330'E NWc SW NE Sec. 27-3S-3E	7-31-54	2820'
Frank L. Strickland	S. J. Grant #1	330'N 330'W SEc SW NE Sec. 29-3S-3E	5-15-54	2826'
Keystone Oil Co.	Paul Mace #1	330'S 330'E NWc NE SE Sec. 33-3S-3E	9-25-54	2820'
Pep Drilling Co.	Jefferson Oil & Gas Corp. #1	330'S 330'W NEc SE Sec. 9-4S-2E	10- 4-54	2793'
F. L. Strickland	Kenneth Rhynes #1	330'N 330'W SEc NW NW Sec. 3-4S-3E	12- 8-54	2820'

JERSEY COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Carl Jensen	Isringhausen #1	440'S 440'W NEc NW SW Sec. 22-8N-13W	4-29-54	950'

JOHNSON COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
T. G. Jenkins	Bessie Mohler #1	330'N 330'E SWc NW Sec. 24-11S-3E	5-27-54	2398'

KANKAKEE COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
R. B. Kintop	Eddie R. Witheft #1	330'N 330'W SEc Sec. 23-30N-9E	10- 1-54	480'

LAWRENCE COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Coon Creek Oil Co.	Clinton Payne #1	330'S 330'E NWc SE NE Sec. 11-1N-12W	12-17-54	1505'
Olds Oil Co.	Roy Hunt #1	660'N 330'W SEc SW NW Sec. 6-2N-11W	9- 7-54	1859'
Francis L. Beard	Jones #1	330'N 330'E SWc SE Sec. 9-2N-11W	7-20-54	1954'
Bury Drilling Co.	A. L. DeBoeuf #1	140'S 1030'W SEc Sec. 18-2N-11W	9- 7-54	2076'
Raymond Brinkley	J. Seigle #1	1650'N 990'W SEc SW SE Sec. 18-2N-11W	9- 8-54	2500'
Raymond Brinkley	R. L. Marsh #1	330'N 330'W SEc NW Sec. 19-2N-11W	3-19-54	1890'
Harold Brinkley	D. L. Moody #2	330'N 330'E SWc SE NE Sec. 19-2N-11W	4-24-54	1851'
Harold Brinkley	C. H. Leathers #1	330'S 330'W NEc SE Frac. SW Sec. 19-2N-1W	7-19-54	1840'
Harold Brinkley	O. Pepple #4	990'N 330'W SEc NE Sec. 19-2N-11W	8-14-54	1890'
Charles Zanetis	Theodore Jordan #1	330'N 330'W SEc NW NE Sec. 19-2N-11W	3-26-54	1858'
T. H. Corp.	Isabel Barthelmy Well #1	330'S 330'E NWc SE Sec. 20-2N-11W	9-27-54	1865'
Robert E. Thorpe	E. J. Burns #1	330'N 330'E SWc NE NW Sec. 20-2N-11W	2- 6-54	1867'
John M. Zanetis	City of St. Francisville #1 Comm.	467'S 2270'E NWc SE Sec. 20-2N-11W	4-30-54	2047'
Albert Morris Drilling & Producing Co.	Claude C. Hussey #1	330'S 330'W NEc SE NW Sec. 30-2N-11W	3-25-54	2140'
H. Dee White	A. B. Buchanan #1-A	330'S 330'W NEc SE SE Sec. 2-2N-12W	6-12-54	988'
Earle B. Reynolds	Edna Tucker #1	330'S 1063'E NWc SW Sec. Frac. 6-2N-12W	10-23-54	2154'
H. E. Cochran	H. C. Leighty #1	330'S 330'E NWc NE SW Sec. 7-2N-12W	9-29-54	1654'
Francis L. Beard	John C. King #1	330'N 330'W SEc SW NE Sec. 8-2N-12W	12- 4-54	1540'
Francis L. Beard	King #1	330'S 330'W NEc SE NW Sec. 8-2N-12W	10-25-54	1509'
John M. Zanetis	Webster #3	480'S 330'E NWc SE Sec. 8-2N-12W	1-11-54	2258'
C. H. Phillips	Ridgley #1	330'S 330'W NEc SE NE Sec. 11-2N-12W	11-19-54	1790'
Earl Nance & Al. Eron	L. Tustin #1-A	330'S 330'E NWc SE NW Sec. 12-2N-12W	11-10-54	1281'
Francis L. Beard	Edward Pepple #1	330'S 330'E NWc NE NE Sec. 16-2N-12W	5-10-54	1400'
N. V. Duncan	Fornoff #1	330'N 330'E SWc NW Sec. 18-2N-12W	10-13-54	2439'
J. L. Harper	Combs #1	330'S 330'W NEc SW Sec. 18-2N-12W	9-21-54	1681'
J. L. Harper	P. W. Kensler #1	330'N 330'W SEc NW Sec. 18-2N-12W	9-25-54	1708'
J. L. Harper	McConnell #2	330'S 330'E NWc SE Sec. 18-2N-12W	9-11-54	1660'
J. L. Harper	K. E. Putnam #1	330'S 330'E NWc SW SE Sec. 18-2N-12W	7- 5-54	1640'
Victor R. Gallagher	Thomas H. Easterday #1	330'N 330'E SWc Sec. 22-2N-12W	9- 5-54	2055'
G. L. Kelly	Ray Spidel #1	330'N 330'E SWc SE NW Sec. 23-2N-12W	12- 3-54	1916'
Sand Barren Leases	J. C. Catt #12	990'N 930'E SWc Sec. 23-2N-12W	6-24-54	1943'
John M. Zanetis	Hoh #1	330'N 330'E SWc NW SW Sec. 24-2N-12W	10-28-54	2030'
D. J. Houchins	Howard Green #1	330'S 330'W NEc NW SE Sec. 27-2N-12W	7-29-54	2043'
Thomas S. Dale	Seitzinger #1	330'S 330'E NWc NW SE Sec. 28-2N-12W	11- 9-54	1455'
The Noah Petroleum Co.	E. T. Whitfield & J. A. Jones #1	330'S 330'E NWc SE SE Sec. 3-2N-13W	7- 7-54	2638'
Mortimer, Harry B.	Cunningham #1	330'N 330'E SWc SW NE Sec. 11-2N-13W	4-29-54	2480'
Cities Service Oil Co.	Beal #6	330'N 330'E SWc SW SE NE Sec. 13-2N-13W	12-15-54	2470'
N. V. Duncan	R. E. Schrader #2	330'S 330'W NEc SE SE Sec. 13-2N-13W	11-21-54	2330'
N. V. Duncan	J. H. Wirth #1	330'N 330'W SEc NW SE Sec. 13-2N-13W	7-13-54	2276'
J. L. Harper	Edwin F. Schrader #1	330'N 330'E SWc NE SE Sec. 24-2N-13W	6-24-54	2330'
Coon Creek Oil Co.	Dorsam #2	330'N 990'E SWc SE Sec. 25-2N-13W	8-20-54	1730'
Illinois Oil Co.	Dorsam #1	990'N 330'W SEc Sec. 25-2N-13W	7-21-54	1728'
Earle B. Reynolds	Wm. Wright #1	330'S 330'W NEc SW Sec. 28-2N-13W	10-25-54	2555'
Coon Creek Oil Co.	Mefford #1	2767'S 3391'E NWc Sec. 16-3N-11W	12-23-54	1857'

Walter Duncan	L. C. David #3	330'S 330'E NWc NE Sec. 17-3N-11W	9-14-54	2596'
Victor Moore	Earle Ackman #1	79.2'N 2092'W SEc Frac. Sec. 19-3N-11W	10-15-54	1875'
Dennison and Goodwin	William Shick #1	330'N 330'W SEc SW Sec. 20-3N-11W	9- 2-54	1886'
William L. McKenzie	Frank Ackman #1	330'S 330'E NWc Sec. 29-3N-11W	11-11-54	1840'
Magnolia Petroleum Co.	Mary Ann Dining #1	330'N 330'E SWc SE NW Sec. 32-3N-11W	9-24-54	1839'
Magnolia Petroleum Co.	Mary Ann Dining #2	330'S 330'W NEc SE NW Sec. 32-3N-11W	9-22-54	1849'
James P. Gaines & Dale Brinkley	Dining Comm. #1	330'N 330'W SEc SW NW Sec. 33-3N-11W	4- 1-54	1890'
The Ohio Oil Co.	Jas. Lewis a/c 1 PI #4	250'S 250'W NEc NE NE Sec. 5-3N-12W	2- 9-54	1482'
The Ohio Oil Co.	S. Newell #19	280'S 320'W NEc SE SW Sec. 5-3N-12W	4-27-54	1682'
The Ohio Oil Co.	S. Newell #5	475'N 205'W SEc SW Sec. 5-3N-12W	6- 2-54	965'
The Ohio Oil Co.	S. N. Cooper a/c 1 #5	660'S 200'E NWc NE NW Sec. 5-3N-12W	6- 8-54	1060'
The Ohio Oil Co.	S. M. Eshelman #15	335'S 310'E NWc NE Sec. 5-3N-12W	1-20-54	1639'
The Ohio Oil Co.	Jas. Lewis a/c 1 PI E 5	280'S 640'W NEc NE NE Sec. 5-3N-12W	12-17-54	3077'
The Ohio Oil Co.	J. R. King a/c 1 #22	160'N 280'E SWc NE NW Sec. 8-3N-12W	2-26-54	1575'
The Ohio Oil Co.	J. R. King a/c 1 #7	200'S 880'E NWc NW Sec. 8-3N-12W	2- 5-54	992'
The Ohio Oil Co.	J. R. King a/c 1 #11	180'N 350'W SEc NW NW Sec. 8-3N-12W	2-12-54	960'
The Ohio Oil Co.	J. R. King a/c 1 Well #3	240'S 200'W NEc NE NW Sec. 8-3N-12W	1-29-54	917'
The Ohio Oil Co.	J. R. King a/c 1 #27	200'N 580'E SWc NE NW Sec. 8-3N-12W	3-10-54	1555'
Gail Heath	Mary Fox #1	360'S 573'W NEc SE NW Sec. 9-3N-12W	12-15-54	1495'
Victor R. Moore	Whitaker #1	165.7'S 99'W NEc SW SW Sec. 9-3N-12W	2-13-54	1570'
S. F. Mauney, c/o Frank Curts	R. O. Buchanan #2	200'S 200'E NWc Sec. 16-3N-12W	7-17-54	1322'
Elvis O. Lurker	Gillespie Heirs #3	330'N 330'E SWc NE NE Sec. 22-3N-12W	9-29-54	1699'
Elvis O. Lurker	Gillespie Heirs #1	330'S 330'W NEc Sec. 22-3N-12W	12- 1-54	1220'
National Cylinder Gas Co.	Hayward O-2	330'S 330'W NEc SW NW Sec. 25-3N-12W	4- 7-54	1664'
Paco Petroleum Corp.	Raymond Swarens #2	330'N 330'W SEc Sec. 31-3N-12W	9-20-54	2307'
The West Drilling Co.	Lelia M. Tarpley #1	330'S 330'W NEc NW NE Sec. 31-3N-12W	3-15-54	2300'
Houchins Drilling Co.	Earl H. Brown #1	330'N 330'W SEc SE SE NW Sec. 14-3N-13W	5-28-54	2127'
J. H. Miskell	Dorothy J. Crebs #1	330'S 330'W NEc NW Sec. 23-3N-13W	10-24-54	2156'
Vako Developing Co., Inc.	Mervin Ruby #1-A	330'N 330'W SEc SW NE Sec. 23-3N-13W	6- 1-54	2305'
E. F. Moran, Inc.	Charles R. Pinkstaff #1	330'S 330'E NWc NE NE Sec. 3-4N-11W	12-31-54	1736'
F. L. Strickland	Kelly #1	330'N 330'E SWc NE Sec. 27-3S-3E	5-10-54	2773'
Olds Oil & Chemical Corp.	Ralph N. Tiffany et al Comm. #1	330'S 330'E NWc SW SE Sec. 10-4N-11W	11- 9-54	1714'
Texas Gas Transmission Corp.	Fisher-Tevault	150'N 660'W SWc SE NE Sec. 12-4N-11W	2- 8-54	1102'
Texas Gas Transmission Corp.	Henry Bierhaus #2	1320'S 660'E NEc NW SW NE Sec. 13-4N-11W	1-15-54	787'
Texas Gas Transmission Corp.	Henry Bierhaus #3	560'S 700'W SWc SW NE Sec. 13-4N-11W	1- 8-54	1090'
Texas Gas Transmission Corp.	Henry Bierhaus #4	1320'S 660'E SWc SE Sec. 13-4N-11W	1- 4-54	1090'
The Ohio Oil Co.	C. C. Bowne #10	520'N 180'W SEc SW SW Sec. 19-4N-12W	5-17-54	1661'
The Ohio Oil Co.	C. S. Berkshire #8	210'S 915'W NEc SW Sec. 19-4N-12W	7-29-54	1658'
Davis Lambert	Verna Busse #1	330'N 330'W SEc SW SW Sec. 23-4N-12W	10-28-54	1825'
The Ohio Oil Co.	W. R. Crakle a/c 1 PI #6	100'S 550'E NWc SW NW Sec. 29-4N-12W	6- 8-54	986'
The Ohio Oil Co.	J. D. Madding #9	40'S 460'E NWc SW SW Sec. 30-4N-12W	6- 2-54	1710'
The Ohio Oil Co.	Chester Willey #9	220'S 180'W NEc SW SE Sec. 30-4N-12W	9- 3-54	1419'
The Ohio Oil Co.	E. Combs a/c 2 #10	540'N 160'E SWc SE SE Sec. 31-4N-12W	9-16-54	1701'
The Ohio Oil Co.	J. T. Griggs a/c 1 #39	200'S 200'W NEc SE SE Sec. 32-4N-12W	2- 5-54	1491'
The Ohio Oil Co.	J. E. Johnson #30	330'S 330'E NWc NW SE Sec. 32-4N-12W	4-22-54	1453'
The Ohio Oil Co.	J. T. Griggs a/c 1 #11	240'N 220'W SEc SE SE Sec. 32-4N-12W	1-21-54	1476'
The Ohio Oil Co.	J. R. Middagh #14	400'S 700'W NEc NE SW Sec. 32-4N-12W	1- 8-54	1426'
The Ohio Oil Co.	J. E. Johnson #2	600'N 180'E SWc NW SE Sec. 32-4N-12W	10-29-54	1021'
The Ohio Oil Co.	J. T. Griggs a/c 1 #19	300'N 340'E SWc NE NE Sec. 32-4N-12W	11-19-54	1450'

LAWRENCE COUNTY PLUGGING AFFIDAVITS—Concluded

Name of operator	Name of well and number	Location	Date plugged	Total depth
The Ohio Oil Co.	J. E. Johnson #15	200'S 280'E NWc NW SE Sec. 32-4N-12W	11-10-54	1410'
The Ohio Oil Co.	Effie Eshelman #2	400'S 300'E NWc SW NW Sec. 33-4N-12W	3-15-54	1515'
Welby Walden	J. W. Whitaker #2	990'S 330'W NEc SE SE Sec. 35-5N-12W	11- 1-54	3187'
W. W. Toler Drilling Corp.	Sam Lewis Heirs #1	330'N 330'E SWc NE NW Sec. 25-4N-13W	6-13-54	1968'
The Ohio Oil Co.	George J. Stoltz #17	600'N 100'W SEc NW NE Sec. 36-4N-13W	5-21-54	1616'
Juan Petroleum Co.	H. H. Gerhart Heirs (1)	330'N 330'E SWc NW SW Sec. 30-5N-11W	9-14-54	1712'
Benjamin H. Suhr	Mitchell #1	330'S 330'W NEc Sec. 32-5N-11W	11- 5-54	3053'
Wm. H. Krohn	Steffey Estate "A" #1	990'N 330'E SWc SE SW Sec. 33-5N-11W	10-10-54	1748'
Breuer-Robison Oil Co.	Smith #1	330'N 330'E SWc NW NW Frac. Sec. 30-5N-12W	4- 1-54	1830'
Breuer-Robison Oil Co.	Tharp #1	330'S 330'E NWc NW SW Frac. Sec. 30-5N-12W	10-22-54	1677'
R. L. Tilton	A. H. Tharp et al—O. R. Wright etux Comm. #1	330'N 330'W SEc NW SW Sec. 30-5N-12W	2-19-54	1694'
Skiles Oil Corp.	D. Waggoner #1	330'N 330'W SEc NE SW Sec. 32-5N-12W	9-22-54	1906'
George & Wrather Oil Co.	Smith-Johnson #6-B	330'S 330'W NEc SE NE Sec. 25-5N-13W	4-12-54	1682'
George & Wrather Oil Co.	Rodrick #2	340'S 340'W NEc SE SE Sec. 26-5N-13W	6- 1-54	1651'

LIVINGSTON COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
The Dickinson Oil Co., Inc.	Larson #2	330'N 430'E SWc NW Sec. 4-29N-5E	7- 8-54	132'
The Dickinson Oil Co., Inc.	Larson #3	1350'N 330'W SEc Sec. 4-29N-5E	9-22-54	375'
The Dickinson Oil Co., Inc.	Keighin #1	330'S 330'E NWc SW NW Sec. 9-29N-5E	8-31-54	377'

MACON COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
A. J. Slagter III	McClure #1	330'S 330'E NWc SE SE Sec. 3-14N-1E	6- 1-54	2339'
H. E. Walton	R. A. Day #1	990'S 330'E NWc NE Sec. 14-14N-1E	8- 5-54	2382'
Sun Oil Co.	L. Brown #1	15'S 125'W NEc SE Sec. 9-14N-2E	3-17-54	350'
A. J. Slagter III	Snyder #1	330'S 330'W NEc NE SW NE Sec. Frac. 18-14N-2E	6-13-54	2490'
E. H. Kaufman	Cottle #1	330'N 330'W SEc NE Sec. 6-15N-1E	6-19-54	2013'
Sun Oil Co.	Heerdt-Chapman Unit #1	330'S 330'E NWc SE Sec. 6-15N-1E	5- 3-54	2036'
Sun Oil Co.	Catherine M. Heerdt #1	330'S 330'E NWc NE SW Sec. 6-15N-1E	8 -1-54	2052'
Vernon D. Jarvis	Albert C. Genner #1	330'S 330'E NWc Sec. 7-15N-1E	3-15-54	1992'
Sun Oil Co.	June K. Usinger #1	330'S 330'W NEc NW NW Sec. 8-15N-1E	3- 5-54	2040'
Richard O. Workman	Lora Obermier #1	330'S 330'E NWc NE Sec. 18-15N-1E	4- 3-54	2044'
Davis Lambert	Lyle Townson #1	330'S 990'E NWc SW Sec. 24-15N-1E	6-28-54	2286'
Sun Oil Co.	M. G. Jacobs #1	50'N 50'E SWc Sec. 11-15N-2E	1-16-54	360'
Sun Oil Co.	R. Henry #1	50'N 50'W SEc SW SE Sec. 8-15N-3E	1-30-54	420'
Morris H. C. Johnson	Ray Sievers #1	330'S 330'E NWc Sec. 7-16N-4E	7-19-54	2388'
Don McCumber	Bruce #1	330'N 330'E SWc SE NE Sec. 7-16N-1E	11-11-54	1928'
Dell Carroll	A. F. Krall #1	330'S 330'E NWc NE SW Sec. 14-16N-1E	9-11-54	2081'
Shulman Bros.	Scroggin-Matthews Comm. #1	330'N 990'E SWc NW Sec. 27-16N-1E	5-28-54	2010'
A. A. Richey	Royce #1	330'S 330'W NEc SW SW Sec. 24-16N-1W	6-20-54	1879'
The Nation Oil Co.	Robert Brown #1	330'S 330'E NWc Sec. 13-17N-1E	8-18-54	2098'
Steele Oil Co.	L. R. Parish #1	330'S 330'E NWc NE Sec. 35-17N-1E	9- 3-54	2054'
Richard H. Proctor	Esther Hamman #1	330'N 330'W SEc NE NE Sec. 16-17N-2E	9-24-54	2100'
A. A. Richey	G. R. Merryman #1	330'N 330'E SWc SE Sec. 20-17N-2E	12-14-54	2023'
M. H. Richardson	Blanche German #1	330'N 330'E SWc Sec. 28-17N-2E	12-13-54	2079'
S. & W. Development Co.	Moody-Friend Comm. #1	990'N 660'W SEc SW Sec. 31-17N-2E	9-15-54	2050'
M. H. Richardson	Keller #1	330'S 330'E NWc NE SE Sec. 33-17N-2E	10-25-54	2105'
M. H. Richardson	Dora Duncan #1	330'S 990'E NWc NE Sec. 33-17N-2E	11- 9-54	2106'
John Unger	Blenz #1	330'N 330'W SEc SW NW Sec. 13-17N-3E	7-19-54	2315'
Theodore Myers	Kuny #1	330'N 330'E SWc SE Sec. 20-17N-3E	12-23-54	2226'
National Associated Petroleum Co.	Lucille N. Rees et al #1	330'S 330'E NWc SE Sec. 36-17N-3E	12-21-54	2331'
Theodore Myers	McLaughlin #1	990'N 330'W SEc NW Sec. 21-17N-4E	10-26-54	2292'
M. H. Richardson	Ike Greenberg #1	330'N 330'E SWc NW Sec. 33-17N-4E	10-27-54	2368'
M. H. Richardson	C. A. Wilson #1	990'N 990'W SEc NE SW Sec. 11-18N-3E	10- 1-54	2069'

MACOUPIN COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
A. R. Frank	Thode #2	350′N 250′W SEc NE SE Sec. 16-7N-7W	8-18-54	514′
Leo Arthalony & Carl Liles	Seniker #1	413′N 360′W SEc SW NE Sec. 21-7N-7W	8-25-54	1586′
Roy Updike	Stone #1	330′S 330′W NEc SE NE NE Sec. 21-7N-7W	6- 7-54	507′
Missouri Oil Enterprises, Inc	Stone #2	330′S 330′W NEc SE SE NE Sec. 21-7N-7W	7-14-54	540′
Roy Updike	George Seniker #1	45′S 330′E NWc SW NW NW Sec. 22-7N-7W	5-28-54	517′
William Vesper	Orville Schull #1	330′S 330′E NWc SW NE SW Sec. 29-7N-7W	8-21-54	581′
Viola Jansen & Maude Jones	Lockyer #1	330′S 415′W NEc NW SE Sec. 8-7N-8W	11- 8-54	580′
Carline Wilson	Schroeder #1	330′S 330′E NWc Sec. 21-7N-9W	7-13-54	1100′
Dale Lambert	Hye Weyen #3	200′S 210′E NWc Sec. 9-8N-6W	1- 8-54	650′
Dale Lambert	John Weyen #7	200′N 105′E NWc SW NW Sec. 9-8N-6W	11- 3-54	2881′
O. R. Shull	Mourning #1	420′N 450′W SEc NE NW Sec. 27-8N-6W	12-22-54	700′
Henry W. Knoche	Knoche #1	502′S 30′E NWc SE NE Sec. 32-8N-7W	5- 8-54	632′
Edgar White	Esther Deffenbaugh #1	330′N 330′W SEc SW Sec. 25-9N-8W	5-25-54	467′
Dale E. Lambert	Oscar McLin #2	330′S 330′E NWc NE SW Sec. 20-10N-7W	10-27-54	505′

MADISON COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Rodgers W. Hays	Julia Noll #1	330′S 330′W NEc SW Sec. 13-4N-7W	3- 1-54	1780′
Kingwood Oil Co.	Muehlenbein Heirs #1	330′N 330′W SEc NW SE Sec. 3-4S-6E	10-21-54	3471′
Dale Hopkins	Donald J. Widman #1	330′S 330′W NEc NW SE Sec. 34-5N-5W	6-23-54	2006′
Sherman Smith	Deisselhorst #1	84′S 517′E NWc SW NW NW Sec. 4-5N-6W	9-15-54	600′
A. E. DeFratis	Shourd #1	330′N 330′E SWc NW NE Sec. 4-5N-6W	8-13-54	581′
Sherman Smith	Fischer #4	350′S 335′W NEc SE NW Sec. 4-5N-6W	4-28-54	600′
Sherman C. Smith-Elmer Lehr	Fischer #2	120′S 227′W NEc SW SE NW Sec. 4-5N-6W	3-15-54	552′
Sherman Smith	Fischer #3	474′S 20′E NWc SW NE Sec. 4-5N-6W	4- 1-54	618′
George Cassens	Muelder #1	975′S 350′W NEc W½ NE Sec. 5-5N-6W	4-23-54	560′
Joseph Kesl, Jr	Adolph Wetzel #1	330′N 330′E SWc SE Sec. 12-5N-6W	4-14-54	820′
O. R. Shull	Espenchield #1	384′N 378′W SEc NE Sec. 16-5N-6W	6-18-54	650′
George Cassens	Kaufman #1	355′N 523′E SWc NW SW Sec. 23-5N-6W	11-17-54	815′
John L. Jefferis	West Community #1	330′S 660′W NEc SW Sec. 12-5N-8W	11- 2-54	495′
Viola Jansen & Nina L. Spudich	Neihaus #1	530′S 138′W NEc NW SW SE Sec. Frac. 6-6N-5W	10-26-54	593′
Viola Jansen & Nina L. Spudich	Prange #1	95′S 226′W NEc SW NW SE Sec. 6-6N-5W	12- 9-54	615′
Joseph Kesl, Jr	Ella Korsmeyer #1	330′N 330′E SWc NE SE Sec. 33-6N-5W	12-18-54	700′

Joseph Kesl, Jr.	Edward H. Johanntosettel #1	330′N 330′E SWc NE NW Sec. 34-6N-5W	8- 5-54	838′
Neary & Cahill	C. & O. Henke Water Flood Unit #17	330′N 330′E SWc SE NW NW Sec. 20-6N-6W	7-17-54	549′
Neary & Cahill	C. & O. Henke Water Flood Unit #16	700′S 820′E NWc Sec. 20-6N-6W	7- 8-54	552′
George Cassens	Schoeneman #1	330′S 535′W NEc SW Sec. 20′6N-6W	3-19-54	740′
John T. Mitchell	Henke Hesi #2	400′S 343′W NEc NW SE Sec. 21-6N-6W	8- 6-54	493′
John T. Mitchell	Henke & Hesi #1	450′N 175′W SEc NW SE Sec. 21-6N-6W	8-16-54	575′
George Zicos	Edwin Blom #1	330′S 355′E NWc SW Sec. 27-6N-6W	9-28-54	578′
George Zicos	Virgil Mullen #4	330′S 290′E NWc NE NE Sec. 28-6N-6W	10- 4-54	512′
George Zicos	Virgil H. Mullen #5	330′S 650′E NWc NE NW NE Sec. 28-6N-6W	10- 5-54	495′
George Zicos	Virgil H. Mullen #6	330′S 650′W NEc Sec. 28-6N-6W	10- 6-54	515′
H. R. Brown	Darger #1	330′S 330′E NWc SE Sec. 28-6N-6W	10- 2-54	515′
George Zicos	Vertosek #1	455′S 132′W NEc SW SE Sec. 28-6N-6W	10-12-54	600′
George Cassens	Brandt #3	320′N 555′W SEc NW SE Sec. 29-6N-6W	10- 6-54	552′
George Cassens	Brandt #1	330′S 330′W NEc NW SE Sec. 29-6N-6W	9-22-54	540′
Joseph Kesl, Jr.	Fred & Gustave Engelke #9	700′S 330′E NWc SW NW Sec. 29-6N-6W	6-14-54	559′
O. F. Sitzes	Schmidt #1	165′S 165′E NWc SE SE Sec. 30-6N-6W	7- 8-54	550′
Joseph Kesl, Jr.	Wm. Albrecht, Jr. #6	635′S 440′W NEc Sec. 30-6N-6W	2-12-54	619′
Joseph Kesl, Jr.	Wm. Albrecht, Jr. #11	500′S 330′W NEc Sec. 30-6N-6W	4-26-54	570′
Joseph Kesl, Jr.	William Albrecht #12	525′S 330′W NEc Sec. 30-6N-6W	5-25-54	572′
S. B. Schenk	Bononi #1	330′S 46′W NEc NW SE NE Sec. 33-6N-6W	1-26-54	585′
S. B. Schenk	Bononi #2	330′S 330′W NEc SE NE Sec. 33-6N-6W	2-23-54	575′
S. B. Schenk	Bononi #3	330′S 230′E NWc SE NE Sec. 33-6N-6W	3- 9-54	570′
Merico Mazzarino	Popelar #1	330′S 330′W NEc NW Sec. 34-6N-6W	10-20-54	583′
S. B. Schenk	Popelar #2	330′N 330′E SWc NE NW Sec. 34-6N-6W	7-21-54	586′
S. B. Schenk	Leitch #6	530′S 5′E NWc NE NE NE Sec. 34-6N-6W	4- 9-54	602′
S. B. Schenk	Hertel #3	142′S 650′E NWc NE SW Sec. 34-6N-6W	12-14-54	584′
S. B. Schenk	Mitchler #1	330′S 330′E NWc Sec. 35-6N-6W	2-16-54	608′
George Cassesn	Dubbelde #1	870′N 330′E SWc SE SW Sec. 9-6N-7W	6-26-54	535′
Edgar White	William F. Zerges #1	330′S 330′W NEc NW NW Sec. 26-6N-7W	4- 1-54	552′
F. G. Olbrich & John H. Knottnerus	Louis Lagemann #1	362′S 29′W NEc Sec. 4-6N-10W	10-26-54	1002′

WELLS PLUGGED IN 1954

Operator	Well	Location	Total depth	Date plugged
MARION COUNTY				
A. M. Fowley	Welch #1	330′N 330′E SWc SE NW Sec. 2-1N-1E	2109′	4- 3-54
A. M. Fowley	Welch #2	860′N 330′E SWc SE NW Sec. 2-1N-1E	3505′	5-21-54
L. E. Cross	L. E. Cross #1	Sec. 18-1N-1E	1216′	2- 2-54
Dewey Stimpson	Tenney #1	30′N 1020′E SWc SW SW Sec. 19-1N-1E	783′	10-29-54
Dewey Stimpson	Gaston #5	530′N 1070′E SWc SW SW Sec. 19-1N-1E	763′	11- 5-54
The Texas Co.	City of Centralia, Tr. 152, Well #51	574′N 321′E SWc NW Sec. 4-1N-2E	1886′	3-29-54

WELLS PLUGGED IN 1954—Concluded

Operator	Well	Location	Total depth	Date plugged
MARION COUNTY—Concluded				
The Texas Co.	City of Centralia, Tr. 152, Well #50	570′N 840′E SWc NW Sec. 4-1N-2E	1875′	3-23-54
The Texas Co.	C. E. Richardson "B", Tr. 171, Well #6	580′S 820′E NWc SW Sec. 4-1N-2E	1868′	2-18-54
The Texas Co.	G. S. Johnson, Tr. 179, Well #15	999′S 330′E NWc NW SE Sec. 6-1N-2E	1870′	1-21-54
The Texas Co.	G. S. Johnson, Tr. 179, Well #6	330′S 330′E NWc NW SE Sec. 6-1N-2E	1870′	1-16-54
The Texas Co.	G. S. Johnson, Tr. #179, Well #12	330′N 330′E SWc SW SE Sec. 6-1N-2E	1822′	1-27-54
The Texas Co.	C. E. Bundy #18	352′S 316′W NWc NW NE Sec. 6-1N-2E	2250′	3-24-54
The Texas Co.	M. A. Tate, Tr. #185, Well #4	330′S 330′W NEc SW NE Sec. 7-1N-2E	1864′	3-30-54
The Ohio Oil Co.	R. L. Murray, Tr. #221, Well #13	330′S 330′W NEc NE SW Sec. 7-1N-2E	1875′	1-14-54
The Texas Co.	M. A. Tate, Tr. #185, Well #6	330′S 330′E NWc SW NE Sec. 7-1N-2E	1867′	4- 7-54
The Texas Co.	A. N. Richardson #5	330′N 651′W SEc NW NE Sec. 7-1N-2E	2223′	3-11-54
The Texas Co.	M. A. Tate #7	330′S 661′W NEc SW NE Sec. 7-1N-2E	2205′	3-20-54
The Texas Co.	A. N. Richardson, Tr. #184, Well #3	330′N 330′E SWc NW NE Sec. 7-1N-2E	1860′	3-20-54
Shuman Bros.	Katy McLaurin #1	990′N 200′W SEc SW Frac. NW¼ Sec. 7-1N-2E	2075′	12- 8-54
The Texas Co.	L. Hawthorne, Tr. #191, Well #15	35′W NEc SW NE Sec. 8-1N-2E	1902′	4- 6-54
The Texas Co.	L. Hawthorne′, Tr. #191, Well #21	330′N 330′W SEc NW NE Sec. 8-1N-2E	1883′	4-15-54
The Texas Co.	M. J. Bryant, Tr. #199, Well #10	132′S 558′E NWc SW NW Sec. 9-1N-2E	2106′	4-12-54
The Texas Co.	City of Centralia, Tr. #152, Well #33	213′N 469′E SWc NW NW Sec. 9-1N-2E	2070′	3-16-54
The Texas Co.	City of Centralia, Tr. #152 Well #28	1021′S 330′E NWc NW NW Sec. 9-1N-2E	2056′	3-13-54
The Texas Co.	J. Williams, Tr. #197, Well #8	872′N 150′W SEc NW NW Sec. 9-1N-2E	2078′	4-15-54
Mt. Moriah Church, J. W. Kell, Trustee	Mt. Moriah Community #1	330′N 330′E SWc SE Sec. 10-1N-2E	2141′	4-27-54
Dewey Stimpson	Watte #1	190′N 1400′W SWc SW SW SW Sec. 10-1N-1E	785′	10-29-54
Nick Babare	Farthing-Mt. Moriah Church #2	330′N 330′W SEc SW SW Sec. 10-1N-2E	2149′	7-20-54
C. R. Winn	Mt. Moriah Community #1	330′N 330′E SWc SE SW Sec. 10-1N-2E	2141′	4-27-54
Bill Montgomery	Charles T. McLaughlin #1	330′S 330′E NWc NE¼ NW¼ Sec. 11-1N-2E	2273′	9-15-54
Kingwood Oil Co.	Dodson #3	330′S 330′E NWc SW NW Sec. 16-1N-2E	2162′	5-11-54
Milton Smith	L. T. Burge #1T	330′S 480′W NEc SE NE Sec. 18-1N-2E	2153′	2- 8-54
C. R. Winn	Karvelas Comm. #1	330′S 330′W NEc NW Sec. 21-1N-2E	2159′	2-19-54
Ben Reiss & Dave Coslet	Hanes #1	330′N 330′E SWc NW¼ SE¼ Sec. 22-1N-2E	2134′	12- 1-54
James O. Taylor	Wm. N. Morrison #1	330′S 330′E NWc SW NW Sec. 27-1N-2E	2134′	5-27-54
H. F. Robison	Price #1	330′N 990′W SEc Sec. 28-1N-2E	3136′	9-11-54
G. W. Rohman	Rex Price #2-A	330′N 430′E SWc SE SE Sec. 28-1N-2E	2176′	11-27-54
Welker Oil Co.	W. A. Kell #2	330′N 330′E SWc SE NE Sec. 3-1N-2W	2280′	1- 8-54
The Texas Co.	E. Jett, Tr. #14, Well #29	310′N 256′E SWc SW SW Sec. 16-2N-2E		
The Texas Co.	E. Jett, Tr. #14, Well #15	210′N 738′E SWc SW SW Sec. 16-2N-2E	1831′	2- 9-54
Welker Oil Co.	Everett Henson #1	330′N 330′E SWc Sec. 2-1N-3E	2641′	1-29-54
Kenneth M. Bayer	L. D. Halfacre #1	330′N 330′E SWc NE NE Sec. 27-1N-4E	2983′	5-15-54
E. C. Reeves	J. H. Trout Comm. #1	550′S 550′W NEc Sec. 7-2N-1E	1747′	6-19-54
Superior Oil Co.	Molly Williams, et al #1	330′N 330′W SEc SW SE Sec. 22-2N-1E	4707′	6-23-54
W. L. Bryant	Emma G. Vogt, et al #1	330′N 330′W SEc SW Sec. 33-2N-1E	902′	8-13-54
The Texas Co.	N. Young, Tr. #29, Well #21	280′S 270′E NWc NW SE NE Sec. 20-2N-2E	4625′	1- 8-54
Ervin Drilling Co.	Dean Rogers #1	990′S 330′E NWc NW NE Sec. 22-2N-2E	1902′	3-22-54
V. L. Arnett	Glenn Shanafelt #1	330′S 330′E NWc SW Sec. 22-2N-2E	2015′	6-30-54

The Texas Co.	R. Friedrich, Tr. #62, Well #5	330'N 330'E SWc SW NW Sec. 29-2N-2E	1870'	1-12-54
The Texas Co.	Marion W. Friedrich	920'N 330'W SEc SE NE Sec. 30-2N-2E	3515'	4- 7-54
The Texas Co.	T. D. Stroup, "B", Tr. #88, Well #11	345'N 340'E SWc SW SE Sec. 30-2N-2E	1841'	3-24-54
The Texas Co.	K. Wayman, Tr. #92, Well #10	660'N 330'E SWc SW NE Sec. 31-2N-2E	2150'	3-26-54
The Texas Co.	C. G. Farthing, Tr. #126, Well #3	330'N 330'E SWc NE SW Sec. 33-2N-3E	1870'	3-19-54
Webster & Perrine	W. B. Frye #1-A	330'S 330'W NEc NW¼ SW¼ Sec. 2-2N-4E	2800'	8- 2-54
Edgar D. Hancock	Homer H. Cheeley #1	330'N 330'W SEc SW NE Sec. 3-2N-4E	2774'	11- 4-54
T. M. Conrey	Howe #1	330'N 330'E SWc NW SE Sec. 4-2N-4E	2814'	8-30-54
Joseph H. Hall	M. R. Stevenson #1	330'S 330'E NWc SE Sec. 6-2N-4E	2860'	10-21-54
E. E. Spencer	Littrell-Fisk Communitized #1	455'N 330'E SWc NE Sec. 11-2N-4E	2850'	12-31-54
E. E. Spencer	Spencer-Berta Ebe #1	330'N 330'W SEc NE NW Sec. 13-2N-4E	2950'	10-24-54
Welker Oil Co.	Bachman #1	330'N 990'W SEc NE NE Sec. 15-2N-4E	2755'	7-12-54
T. M. Conrey	Tullis #1	330'S 330'W NEc Sec. 16-2N-4E	2816'	9- 4-54
Paul Holleman & Ollie G. Husk, d/b/a Husk & Holleman	Pope-Gergini-Foltz-I. C. R. R. Comm. #1	330'N 330'E SWc NE NW Sec. 4-3N-1E	1365'	11-11-54
Paul Holleman & Ollie G. Husk, d/b/a Husk & Holleman	Deadmond #2	330'N 330'W SEc SW NW Sec. 8-3N-1E	1494'	8-14-54
Dale Hopkins	Charles Thalman #1	330'N 330'E SWc NE Sec. 12-3N-1E	1892'	7- 6-54
Omar Minton, Jr.	J. A. Henning #1	330'S 330'W NEc SE NW Sec. 29-3N-1E	1764'	11- 3-54
H. R. Pennington	Laura Quick #1	330'S 330'E NWc Sec. 35-3N-1E	1772'	2-19-54
Ervin Drilling Co.	Cecil M. Kell #1	330'S 330'W NEc Sec. 32-3N-2E	2236'	6- 1-54
Theodore R. Lindsay	Maurice Schooley #1	330'S 330'E NWc SE Sec. 1-3N-3E	2547'	11-16-54
E. G. Welker	Ray Vandeveer #1	990'S 990'E NWc SW SW Sec. 14-3N-3E	2595'	11-17-54
E. G. Welker	Fred Hankins #1	330'N 330'W SEc SW SE Sec. 4-3N-4E	2504'	12-17-54
R. W. Portis	Mojonnier #1	330'N 330'E SEc NW SE Sec. 19-4N-1E	1675'	7-23-54
T. C. Teter	Mathews #1	990'S 330'E NWc Sec. 26-4N-1E	1732'	3-31-54
W. E. Weidler	Davis #1	330'N 330'E SWc NE Sec. 31-4N-1E	1680'	4-10-54
R. W. Portis	Adams-Martin Community #1	1650'N 1020'E SWc SE Sec. 32-4N-1E	1690'	7-26-54
Joe Dixon	John Mazanek #2	330'S 330'E NWc NE SW Sec. 36-4N-2E	2188'	3-12-54
Bill Montgomery	F. A. Dietrich #1	330'S 330'E NWc SW¼ NW¼ Sec. 12-4N-3E	2364'	11- 5-54
Gulf Refining Co., E. P. D.	L. W. Jones #1	330'N 330'E SWc SE Sec. 16-4N-4E	2224'	2- 4-51
W. O. Morgan	Lillie W. Jones #1	1070'N 430'W SEc SW¼ SE¼ Sec. 16-4N-4E	2157'	8-17-54

MERCER COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Lee Cofer	Lee Cofer #1	330'S 410'W NEc NW Sec. 24-13N-4W	11-17-54	1319'
Nelson, Patterson & Edwards	Claire Larson #1	330'N 330'E SWc NE Sec. 28-15N-4W	2-16-54	740'

McDONOUGH COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Kingwood Oil Co.	J. O. Shanafelt "A", Tr. #17, Well #17	330′E 405′N SWc SW NW NE Sec. 20-2N-2E	3-21-54	2222′
Ohio Oil Co.	M. Young #11	350′S 1035′W NEc NE SW Sec. 20-2N-2E	3-24-54	4627′
Charles Measley	Ivan Dowacker #2	500′S 387′E NWc SW Sec. 21-1N-4W	3-19-54	460′
Dale E. Lambert	Warren McGinnis #1	330′S 330′E NWc SW Sec. 28-1N-4W	3-17-54	446′
Alfred Frommelt	Lewis Waddill #2	990′N 714′W SEc Sec. 32-5N-4W	10-13-54	565′
Alfred Frommelt	Whitlock #1	330′N 330′E SWc SE SW Sec. 33-5N-4W	10-13-54	570′

MORGAN COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
C. C. Pearson	Ann Trafton #1	465′N 330′W SEc SW SE NW Sec. 8-15N-9W	10-22-54	310′
C. C. Pearson	John C. Ginder #1	330′S 345′E NWc Sec. 31-15N-9W	12-4-54	400′
C. C. Pearson	Lloyd Cromwell #1	330′S 330′W NEc SE SW Sec. 12-15N-10W	6-21-54	380′
C. C. Pearson	Samuel Weinfield #1	330′N 1090′W SEc NE Sec. 20-16N-8W	5-20-54	460′
O. A. Reed & Frank A. Fitzhugh	Lewis #1	330′N 330′W SEc SW NW Sec. 4-16N-9W	4-23-54	327′

MONTGOMERY COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Calvert Drilling, Inc.	I. A. Huber #1	330′N 330′E SWc SE NW Sec. 9-7N-2W	4-24-54	2460′
C. J. Simpson	Simonin #1	330′N 330′E SWc Sec. 23-7N-3W	11-14-54	2373′
Welker Oil Co.	Glenn Heirs #1	330′N 330′E SWc NE Sec. 31-9N-3W	7-21-54	2090′
Delta Drilling Co.	Henry T. Janssen #1	330′S 330′E NWc SW NE Sec. 4-10N-3W	5-25-54	2288′
David N. Claypool	Joe Held #1	330′N 330′E SWc SE SW Sec. 8-10N-4W	5-24-54	674′
David N. Claypool	J. Suppes #2	330′S 330′E NWc SE NE Sec. 18-10N-4W	10-17-54	610′
D. C. Richardson	Wiegreffe #1	330′S 330′E NWc SE Sec. 18-10N-4W	10-29-54	601′
Louis Marsch	Agnes Doyle #1	300′N 330′W SEc Sec. 21-10N-4W	5-12-54	622′
Louis Marsch	W. G. Pope #1	330′S 330′E NWc NE Sec. 22-10N-4W	11-26-54	600′

MOULTRIE COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Lloyd Younger, Jr	C. Fulk #1	330′N 330′E SWc NW Sec. 10-14N-4E	11- 9-54	2763′

PERRY COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Canter Drilling Co.	Casner-Duncan #1	330′N 330′E SWc SE Sec. 13-4S-2W	9-22-54	1245′
E. C. Reeves	Walter Rojek #1	330′N 330′W SEc NE NW Sec. 24-4S-2W	8-22-54	1530′
Jet Oil Co.	O. E. Scott #1	330′N 330′E SWc SE NE Sec. 17-4S-3W	9-20-54	1619′
John W. Rudy	Baudison Consolidated #1	330′N 330′W SEc NE SE Sec. 24-5S-3W	12- 4-54	1497′
Glenn Barwell	Eva Barwell	330′S 330′W NEc NW NE Sec. 29-5S-4W	5-29-54	2688′

RANDOLPH COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Wm. F. Seigler	Jerger #1	330′S 330′W NEc Sec. 5-4S-5W	1-22-54	2319′
Frank L. Dittmeier, Jr	Lyons #1	330′S 330′W NEc SE SW Sec. 6-4S-6W	10- 9-54	548′
Jet Oil Co.	Wm. Rogers #1	330′N 330′W SEc SW Sec. 7-4S-6W	9- 5-54	1704′
Alch Drilling Co.	Lyons #1-A	330′N 355′W SEc NW NW Sec. 7-4S-6W	8-17-54	570′
Norbert Friederich	Rainey #1	330′N 330′W SEc NE Sec. 15-4S-6W	6-29-54	2704′
Vincent J. Nolan	Thomas McHatton #1	330′S 330′E NWc Sec. 17-4S-6W	9-23-54	1689′
Alch Drilling Co.	Ralph M. Mathews #1	330′S 330′E NWc SW Sec. 17-4S-6W	9-28-54	1905′
P. M. & David M. Barton	Jennie McMaster #1	330′N 330′E SWc NE Sec. 23-4S-6W	5-14-54	2300′

RICHLAND COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
The Pure Oil Co.	Guyot Consolidated #1	330′N 330′W SEc Sec. 2-2N-8E	11- 1-54	3014′
Calvert Drilling, Inc.	Coulter Heirs #1	330′S 330′W NEc SW SE Sec. 11-2N-8E	8-20-54	3047′
Don Baines	R. Sager #1	330′N 330′E SWc SE NW Sec. 12-2N-8E	9-23-54	3074′
Don Baines	W. W. Long #1	330′S 330′E NWc SW Sec. 12-2N-8E	6-19-54	2991′
M. V. Ring	L. Montgomery #1	330′N 330′W SEc NE SW Sec. 4-2N-9E	5-18-54	3142′
Alva C. Davis	Gerhart #1	330′N 330′E SWc SE NE Sec. 6-2N-9E	8-14-54	3101′
New Illinois Mid-Continent Oil Co.	C. L. Salisbury et al #1	330′S 330′E NWc NE Sec. 12-2N-9E	9- 6-54	3137′
Gordon G. Greene	Jenner #1	330′N 330′E SWc NE NE Sec. 8-2N-10E	10-14-54	3214′
V. T. Drilling Co.	C. Boyd #1	330′N SWc SE SE SW Sec. 26-2N-10E	5-21-54	3250′
A. J. Slagter, Jr.	Olney Trust & Bank #1	660′N 330′E SWc NE SE Sec. 5-2N-14W	4-12-54	3168′
Theodore R. Lindsay, William Rice & Clifford Heilmann	Della Boley #1	330′S 660′W NEc SE NE Sec. 5-2N-14W	8-22-54	3145′
James W. Menhall	Oscar Williams #3	330′N 330′E SWc Sec. 8-2N-14W	12-30-54	3221′
Chas. A. Baldwin	Page Whitaker	425′N 330′E SWc NW SE Sec. 8-2N-14W	9-25-54	3187′
Charles Pollack	W. W. Moore #1	660′N 165′E SWc SW NW Sec. 16-2N-14W	11-15-54	3149′
J. W. Menhall	W. H. Cole #1	330′S 330′W NEc NW NW Sec. 17-2N-14W	1- 6-54	3213′
J. W. Menhall	W. H. Cole #4	330′S 330′E NWc NW NW Sec. 17-2N-14W	1- 9-54	3225′
Slagter Producing Co.	Fred Lambert Comm. #1-B	330′N 330′E SWc SW Sec. 17-2N-14W	12-11-54	3205′
F. A. Bridges	W. H. Cole #1	330′N 330′W SEc NE NE Sec. 18-2N-14W	1-30-54	3247′
Ashland Oil & Refining Co.	W. H. Cole #2	330′S 330′W NEc NE NE Sec. 18-2N-14W	1-27-54	3254′
Calvert Drilling, Inc.	Lloyd Chamberlain #1	330′N 330′E SWc SE SE Sec. 18-2N-14W	10-22-54	3242′
Slagter Producing Co.	K. E. Ridgely #1-C	330′N 660′W SEc NE NE Sec. 19-2N-14W	11-14-54	3257′
Slagter Producing Co.	G. H. Ridgely #2	330′N 330′E SWc NW NW Sec. 29-2N-14W	12-29-54	3156′
George Marott II	Taylor #1	330′S 330′W NEc SE SE Sec. 13-3N-8E	5-29-54	2997′
Pure Oil Co.	Anna Noe-B #1	660′S 332′W NEc NW SE Sec. 6-3N-9E	11-16-54	3075′
N. B. Smith	Bokenkamp #1	330′N 330′E SWc SE SE Sec. 7-3N-9E	10- 8-54	2977′
Murvin & Steber	C. L. Schnell #1	330′S 330′W NEc NW SE Sec. 9-3N-9E	12-17-54	3000′
J. L. Black Oil Producing, Inc.	Anna N. Hunt #4	660′N 330′E SWc SE NW Sec. 10-3N-9E	10-11-54	2625′
John W. Rudy	Cline #1	330′N 660′W SEc NE Sec. 13-3N-10E	1-18-54	3258′
Orville Weston	E. O. Kirk #1	990′S 330′E NWc SE SW Sec. 29-3N-10E	1- 6-54	3177′
H. L. Browning	W. H. Gillaspie #1	330′S 330′W NEc NW SE Sec. 29-3N-14W	7-23-54	2445′
Don Baines	Wm. Cleaver #1	330′S 330′W NEc Sec. 31-3N-14W	2- 9-54	3288′
C. S. Higgins	H. H. Harmon et al #2	330′S 330′W NEc NW NE NW Sec. 32-3N-14W	4-24-54	2386′
Nash Redwine	Sam Bartley #1	330′S 330′E NWc SE NW Sec. 32-3N-14W	3-17-54	2373′
Paul F. Osborne	Melvina E. Bowers #1	330′N 330′E SWc SE Sec. 34-3N-14W	4-14-54	3199′
Case-Pomeroy	A. E. Bunn #1	330′N 660′W SEc SE SW Sec. 34-3N-14W	4-27-54	3207′
Perry Fulk	Jack Risley #1	330′S 330′E NWc SE Sec. 2-4N-9E	9-20-54	3015′
W. H. Bears	Chapman #1	330′N 330′E SWc NE NW Sec. 13-4N-9E	11-12-54	2978′
W. H. Bears	N. Glathart #1	330′N 330′W SEc NE NW Sec. 13-4N-9E	11-12-54	2980′
W. H. Bears	W. Moor #1	330′S 330′E NWc SE NW Sec. 13-4N-9E	11-16-54	2976′
Pure Oil Co.	Everett Taylor-B #2	330′N 330′E SWc NE SE Sec. 14-4N-9E	7- 6-54	2925′
Arvin Drilling Co.	LeDorea Stone #1	330′S 330′W NEc SE SE Sec. 18-4N-9E	3-16-54	3029′
Pure Oil Co.	G. B. Murry-A #4	660′N 1531′E SW NW Sec. 6-4N-10E	1- 5-54	2910′
Illiana Drilling Corp.	Elmer Holtz #1	330′N 330′W SEc SW Sec. 6-4N-10E	5- 6-54	2581′

Pure Oil Co	Holtz Consolidated #1	330′S 330′E NWc SW NW Sec. 8-4N-10E	5-13-54	2939′
W. H. Bears	W. F. Bauman #1	330′S 330′W NEc SE SE Sec. 26-4N-10E	9- 2-54	3196′
D. B. Lesh Drilling Co	Neal Brooks #1	330′N 330′E SWc NE Sec. 29-4N-10E	12-31-54	3077′
J. W. Lehwald	Williams et al #1	330′S 330′W NEc Sec. 33-4N-10E	11-16-54	3044′
Don Slape Drilling Co	C. Snider #C-1	990′S 990′W NEc SE Sec. 25-5N-9E	4- 6-54	2933′
Paul T. Hammers	L. Wakefield #1	330′N 330′W SEc Sec. 28-5N-9E	3-16-54	3183′
W. H. Bears	Coen-A. Beaird #1	990′S 330′W NEc SE NW Sec. 36-5N-9E	8-30-54	2930′
John W. Rudy	Dale Snider #1	330′S 664′W NEc NW Sec. 32-5N-10E	5-12-54	2911′
Ashland Oil Refining Co	Luther-Burgener #2	330′N 330′E SWc NE SE Sec. 30-5N-11E	9-11-54	3027′
W. L. Belden	Davis Comm. #1	330′N 1650′W SEc NE SW Sec. 4-7S-8E	12- 2-54	2981′

SALINE COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Collins Brothers Oil Co	G. R. Johnson #1	330′N 330′E SWc SE NW Sec. 19-7S-5E	11-11-54	3302′
L. F. Wilson	Virgil Manker #1	330′S 380′E NWc SW SW Sec. 23-7S-5E	6-11-54	3400′
C. E. Brehm Drilling & Producing	Clyde E. Kane #1	330′N 330′E SWc NW NW Sec. 19-7S-6E	2-22-54	3379′
E. H. Morris	Edwin Lewis #1	330′S 330′E NWc SW Sec. 36-7S-6E	8-19-54	2937′
R. W. Portis	Barnes #1	330′S 330′W NEc SE NE Sec. 25-7S-7E	8-26-54	2935′
Coy Oil, Inc	Otis A. Carter et al #1	330′S 330′W NEc SE SE Sec. 29-7S-7E	4-14-54	3151′
W. E. Weidler	Woolard #1	330′N 380′E SWc NW NE Sec. 9-8S-5E	5-30-54	3045′
Calvert Drilling, Inc	J. Bona #1	330′N 330′W SEc NW Sec. 23-8S-5E	9-23-54	3070′
The Pure Oil Co	E. S. Quick #2	330′N 330′W SEc NE Sec. 5-8S-6E	7-12-54	3185′
John D. Upchurch	Bertha B. Bishop #1	330′S 330′W NEc SW Sec. 10-8S-6E	12-17-54	3077′
Dee Miller Drilling Co., Inc	James Stafford et al #1	330′S 330′E NWc NE NW Sec. 11-8S-6E	5-17-54	3102′
George & Wrather Oil Co	Mabel Sronce #1	340′S 330′E NWc SE NW Sec. 15-8S-6E	7-17-54	2863′
E. H. Morris	Thornberry-Burns-Guest Comm. #1	330′N 330′E SWc NE SW Sec. 16-8S-6E	4- 8-54	3104′
E. H. Morris	Lloyd Guest #1	330′N 330′E SWc NW NE Sec. 21-8S-6E	9- 4-54	3004′
Slagter Producing Co	Wesley #1	330′N 330′W SEc NW NW Sec. 22-8S-6E	8-22-54	3031′
Nash Redwine	Florence Frantz-Verlie O. James #1	370′N 330′W SEc NE NW Sec. 34-8S-6E	9-13-54	2807′
Sam G. Walker	De Vera Burg #1	459′N 330′E SWc NW SW Sec. 34-8S-6E	12-29-54	2923′
Ashland Oil & Refining Co	C. E. Garner #3-A	330′S 330′E NWc NE Sec. 1-8S-7E	9- 5-54	3025′
Calvert Drilling, Inc	M. M. Endicott #3	330′S 330′W NEc SW SE Sec. 2-8S-7E	11- 7-54	2226′
Calvert Drilling, Inc	J. Unthank #1	330′N 330′W SEc NE SW Sec. 2-8S-7E	10- 3-54	2242′
Ashland Oil & Refining Co	Victor Suttner #3	330′N 330′W SEc Sec. 7-8S-7E	5-17-54	2943′
Pep Drilling Co	Victor Suttner #1	330′N 330′W SEc SW SE Sec. 7-8S-7E	10-19-54	2944′
Wayne Misener Drilling Co	Suttner Comm. #1	400′N 330′W SEc NW SE Sec. 7-8S-7E	6- 5-54	3000′
The Carter Oil Co	Paul Turner #3	397′N 330′E SWc NW SW Sec. 8-8S-7E	7- 9-54	2951′
Calvert Drilling, Inc	D. F. Vangampelaere #1	330′S 330′E NWc NE NW Sec. 11-8S-7E	11-28-54	2250′
Calvert Drilling, Inc	D. F. Vangampelaere #2	330′S 330′W NEc NW Sec. 11-8S-7E	12-21-54	2270′
Carter Oil Co	William Crawford Comm. #1	330′N 330′E SWc SE Sec. 13-8S-7E	9-22-54	2564′

SALINE COUNTY PLUGGING AFFIDAVITS—Concluded

Name of operator	Name of well and number	Location	Date plugged	Total depth
Ashland Oil & Refining Co	Patton-Mathias Comm. #1	330′N 330′W SEc NE SE Sec. 14-8S-7E	7-22-54	3061′
Calvert Drilling, Inc	Stinson et al #1	330′N 330′W SEc NW NE Sec. 17-8S-7E	4-17-54	3060′
J. M. Roberts	J. H. Butler #1	330′S 330′E NWc SE SW Sec. 17-8S-7E	10- 3-54	3015′
J. D. Turner	Otis Carter Comm. #1	290′N 300′E SWc SE SE Sec. 17-8S-7E	10-19-54	2975′
Pep Drilling Co	George Watson #1	330′S 330′W NEc Sec. 18-8S-7E	6-27-54	2600′
Eastern Petroleum Co	Berry-Cox Comm. #1	330′S 400′W NEc SW SW Sec. 20-8S-7E	9- 2-54	2881′
John Stelle Associated	Choisser-Cole #1	330′S 320′W NEc NW SW Sec. 20-8S-7E	5-22-54	2944′
W. C. McBride, Inc	Clarence Collier #1	330′S 330′E NWc SE SE Sec. 23-8S-7E	2-17-54	3025′
Miami Operating Co	Robert Bertino #1	430′S 330′W NEc SW NW Sec. 26-8S-7E	7- 1-54	3018′
John Stelle Associated	Tracy D. Hirst, Henry Deville et al Comm. Unit #1	345′N 330′E SWc NW NE Sec. 29-8S-7E	12-25-54	2905′
F. J. Fleming	W. M. Cowgur #1	330′S 990′W NEc Sec. 12-9S-5E	7- 4-54	2812′
Dean, Hollowell & Southern Developement Co	Oscar Taylor #1	330′N 330′W SEc NW Sec. 8-9S-6E	8-12-54	2643′
J. F. Ashoff, Jr	A. L. Smith #1	355′N 355′E SWc Sec. 2-10S-6E	9- 8-54	1525′

SANGAMON COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
B. M. Heath	Springfield Marine Bank #1	330′S 330′E NWc NE Sec. 15-14N-4W	12-15-54	1818′
A. E. DeFratis	E. Edwards #1	330′N 330′W SEc SW Sec. 24-14N-4W	10-21-54	383′
J. M. Roberts	Shepherd #1	660′N 330′E SWc Sec. 25-14N-5W	8-29-54	1816′
George F. Chatt	Harold W. Dodd #1	1034′S 360′E NWc Sec. 15-14N-7W	11- 6-54	1501′
M. H. Richardson	Roscoe Darnell #1	1668′N 680′E SWc NE Sec. 1-15N-3W	9-16-54	1798′
Breuer-Robison Oil Co	Peterson #1	330′S 330′E NWc Sec. 2-15N-3W	10-18-54	1758′
Edward P. Gallagher	Roscoe Darnell #1	330′S 330′E NWc NE NW NW Sec. 4-15N-3W	10-11-54	1784′
J. & D. Kuykendall Drilling Co	Mary E. Munson Well #1	330′N 330′W SEc SW SE Sec. 8-15N-3W	11-10-54	1795′
Armin C. Baer	Mary E. Munson #1	330′S 330′E NWc SW NW SE Sec. 9-15N-3W	6-15-54	1755′
J. L. Schaefer	Ebinger #1	330′N 330′E SWc Sec. 21-15N-3W	11-22-54	1830′
Collins Brothers Oil Co	Bennett Bros. #1	330′S 330′E NWc SE Sec. 9-15N-4W	8-20-54	1821′
Edward Lee Wirth	Hitt #1	330′S 330′E NWc SW NW NW Sec. 12-15N-8W	10- 9-54	444′
D. B. Lesh Drilling Co	H. L. Metcalf #1	330′S 330′E NWc NE Sec. 27-16N-3W	9-19-54	1805′
Clifford Perardi	Harry Schnirring #1	332′N 332′W SEc NE SW SW Sec. 34-16N-3W	10- 9-54	1800′
Edward Lee Wirth	Williamson #1	330′S 330′E NWc NE Sec. 34-16N-8W	9-22-54	1222′
Edward Lee Wirth	Hunter #1	330′S 330′W NEc NW SW Sec. 36-16N-8W	12-17-54	490′
Stanley W. Kluzek & Wallace A. Warren	Mabel Long #1	330′N 330′W SEc SW NE Sec. 33-17N-4W	8-22-54	1630′

SCHUYLER COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
A. R. Frank	Stambough Well #1	330′N 539′W SEc NE SW Sec. 9-2N-2W	5-29-54	635′

SHELBY COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
G. & W. Drilling Co.	Cal Dunaway #1	330′S 330′E NWc Sec. 3-9N-3E	8-17-54	2023′
Walter Duncan	Silknitter #1	330′N 330′W SEc NW Sec. 14-10N-2E	12- 6-54	1875′
Parker Brothers, Inc.	Plowman #2	330′N 330′W SEc NW SE Sec. 7-10N-3E	6-16-54	1732′
Welker Oil Co.	Stewardson #1	330′N 330′W SEc NW Sec. 16-11N-4E	8-12-54	600′
H. F. Robison	Eberspacher #1	330′N 330′W SEc NW Sec. 29-12N-2E	7- 9-54	1564′
R. H. McDaniel	C. J. Weber #1	330′N 330′E SWc SE NE Sec. 29-12N-2E	1-18-54	2871′

ST. CLAIR COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
E. W. Herchenroeder & H. M. Guetterman	A. G. Schmidt #1	330′S 330′W NEc SE Sec. 33-1N-7W	12-15-54	2066′
F. R. Loveridge et al	Hall & Wiehl #Q	Township 1N Range 10W	3- 2-54	460′
F. R. Loveridge et al	Hall & Weihl #R	Township 1N Range 10W	3- 2-54	460′
F. R. Loveridge et al	Hall & Weihl #S	Township 1N Range 10W	3- 3-54	460′
Hubert Howard & J. V. Howell	Arthur Klingel #1	330′N 330′E SWc SE NE Sec. 18-1S-6W	5-30-54	2920′
Norbert Friederich	Burgard #1	140′N 500′W SEc NE NW SW Sec. 33-1S-6W	4-28-54	2486′
E. E. Rehn	Elmer Behrens #1	370′N 330′E SWc NW Sec. 33-1S-7W	10-13-54	2000′
E. E. Rehn	Adolph G. Dahm #1	330′S 330′E NWc NE NE Sec. 35-1S-7W	11- 4-54	2188′
Hoiles Petroleum Co., Inc.	Peter #1	1320′S 990′W NEc NW Sec. 19-1S-8W	5-18-54	135′
E. J. Goldschmidt	Carl Grommett #1	330′N 330′E SWc SE Sec. 20-1S-8W	4- 9-54	1448′
E. J. Goldschmidt	Fred Heap #1	330′S 330′E NWc SE Sec. 29-1S-8W	6- 4-54	1405′
John Faust	Schmidt #1	380′S 425′W NEc NW NE Sec. 13-1S-9W	11-17-54	175′
Coral Oil Co.	Schroeder #1	330′N 330′W SEc NW SE Sec. 6-3S-6W	6- 4-54	2340′
Coral Oil Co., Trustees	Schroeder #1	330′N 330′W SEc NW SE Sec. 6-3S-6W	5-28-54	1900′

TAZEWELL COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Paul H. Martin	Joseph Zuercher #2	400'S 20'W NEc NW SE Sec. 29-26N-3W	12- 6-54	1825'

VERMILION COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Jet Oil Co.	Henry C. Finley #1	330'N 330'W SEc SE SW SW Sec. 9-18N-12W	6-23-54	1538'
H. F. Robison	L. H. Schlecht #1	330'N 330'W SEc SW Sec. 21-22N-11W	1-28-54	1653'
H. F. Robison	L. H. Schlecht #1	330'N 330'W SEc SW Sec. 21-22N-11W	2- 3-54	1800'

WABASH COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
James P. Gaines & Dale Brinkley	Sanders #1	330'N 530'E SWc SE NW Sec. 6-1N-1W	6-25-54	1590'
James P. Gaines	Sanders #3	660'S 330'E NWc SW Sec. 6-1N-11W	7- 9-54	1380'
James P. Gaines	Sanders #4	660'S 330'E NWc SW NE SW Sec. 6-1N-11W	7-30-54	1380'
Coon Creek Drilling Co.	Olin Mullinax #1	927' from NW line 330' from SW line of Location 1 Sec. 7-1N-11W	10-10-54	1457'
J. M. Hughes	Stillwell #4	1296.6'N 330'W SEc Sec. 1-1N-12W	4-23-54	1417'
Francis L. Beard	S. H. Price #1	330'N 330'E SWc NE SW Sec. 2-1N-12W	6- 5-54	1130'
Francis L. Beard	S. H. Price #2	330'N 830'E SWc NE SW Sec. 2-1N-12W	6- 7-54	1160'
Forest Oil Corp.	Joe Jordan #2	250'S 10'E NWc NE SW SW Sec. 3-1N-12W	3- 9-54	1578'
Forest Oil Corp.	J. Jordan #4	250'N 225'W SWc SW SW SW Sec. 3-1N-12W	4-25-54	1544'
Forest Oil Corp.	Joe Jordan #5	330'S 600'E NWc SW SW Sec. 3-1N-12W	3- 5-54	1571'
Forest Oil Corp.	Jordan Bros. #1	1'N 250'E SWc NW SW Sec. 3-1N-12W	2-28-54	1576'
Forest Oil Corp.	Joe Jordan #1	330'N 330'E SWc SW Sec. 3-1N-12W	3-12-54	1559'
Forest Oil Corp.	J. Jordan #3	250'N 650'E SWc SW SW Sec. 3-1N-12W	4-22-54	1544'
Forest Oil Corp.	Eli Jordan #1	700'S 250'E NWc NW SW Sec. 3-1N-12W	6- 2-54	1570'
Forest Oil Corp.	Eli Jordan #4	200'S 75'W NEc SW SW Sec. 3-1N-12W	5-12-54	1558'

Forest Oil Corp.	Eli Jordan #5	250'S 250'E NWc SW Sec. 3-1N-12W	2-12-54	1545'
Forest Oil Corp.	Eli Jordan #6	230'S 430'E NWc NW SW Sec. 3-1N-12W	5-13-54	1570'
Forest Oil Corp.	H. Jones #1	650'N 475'W SEc SW SE Sec. 4-1N-12W	4- 3-54	1534½'
Forest Oil Corp.	H. Jones #2	200'N 300'W SEc SW SE Sec. 4-1N-12W	4-29-54	1532'
Forest Oil Corp.	J. Smith #5	530'N 450'E SWc SE SE Sec. 4-1N-12W	4-27-54	1513'
Forest Oil Corp.	J. Smith'6	325'S 425'E NWc SE SE Sec. 4-1N-12W	6- 3-54	1528'
Forest Oil Corp.	J. Smith #7	200'N 200'E SWc SE SE Sec. 4-1N-12W	6- 4-54	1502'
J. C. Westfall	Frank Price #1	330'S 280'W NEc NW NE Sec. 4-1N-12W	9-25-54	1580'
J. C. Westfall	J. M. Mullinax #1	330'N 330'E SWc NW SW Sec. 4-1N-12W	8-22-54	1628'
J. C. Westfall	Clyde Knowles #1	1868'N 203'E SWc SE Sec. 5-1N-12W	10-31-54	1589'
New Illinois Mid-Continent Oil Co.	S. Preston & L. J. Armstrong Comm. #1	330'S 330'E NWc NE Sec. 6-1N-12W	11-10-54	1741'
G. W. Perkins & R. E. Fortner	Mary L. Prout #1	330'S 330'W NEc SW SE Sec. 6-1N-12W	11-22-54	1595'
Coon Creek Oil Co.	Leek-Litherland Comm. #1	330'N 330'E SWc SE NE Sec. 7-1N-12W	11-19-54	1551'
Illinois Oil Co.	F. M. Leek #1	330'N 330'W SEc SW NE Sec. 7-1N-12W	12-29-54	1542'
Coon Creek Oil Co.	Leek #3	990'N 330'W SEc NW SE Sec. 7-1N-12W	9-18-54	1557'
Coon Creek Oil Co.	F. M. Leek #4	830'N 330'W SEc SW NE Sec. 7-1N-12W	9-26-54	1543'
Illinois Oil Co.	Taylor-Wheatley #3 (Comm.)	330'N 100'E SWc SE SE Sec. 7-1N-12W	8-31-54	1573'
Houchins Drilling Co.	Clarence Akin #1	330'N 330'E SWc NW SE Sec. 7-1N-12W	11-13-54	1605'
J. C. Westfall	Olin Mullinax et al #1 Comm.	990'S 330'W NEc Sec. 8-1N-12W	10-12-54	1670'
Forest Oil Corp.	Ed Smith #1	200'N 250'W SEc NE NE Sec. 9-1N-12W	3-21-54	1497'
Forest Oil Corp.	C. Smith #3	475'S 190'W NEc NE NE SE Sec. 9-1N-12W	12-29-54	1532'
Forest Oil Corp.	E. Smith #4	200'N 600'W SEc NE NE Sec. 9-1N-12W	6- 8-54	1578'
Forest Oil Corp.	Ed Smith #7	250'S 250'E NWc NE NE Sec. 9-1N-12W	2-23-54	1534'
Forest Oil Corp.	McMillian #2	240'N 240'W SEc SE SE NE Sec. 9-1N-12W	12- 5-54	1537'
Forest Oil Corp.	McMillian #3	200'S 200'W NEc NE SE NE Sec. 9-1N-12W	11-22-54	1541'
Forest Oil Corp.	McMillian #5	200'S 30'W NEc NW SE NE Sec. 9-1N-12W	11-19-54	1507'
Forest Oil Corp.	McMillian #9	10'S 200'W NEc SE SE NE Sec. 9-1N-12W	11-30-54	1497'
Forest Oil Corp.	J. T. Smith #3	275'S 275'E NWc NW Sec. 10-1N-12W	2-20-54	1532'
Forest Oil Corp.	Jake Smith #9	200'N 600'E SWc NW NW Sec. 10-1N-12W	4- 2-54	1557'
Forest Oil Corp.	Jake Smith #10	600'S 600'E NWc NW NW Sec. 10-1N-12W	4-11-54	1544'
Forest Oil Corp.	Jake Smith #11	200'N 200'W SEc NW NW Sec. 10-1N-12W	3-26-54	1530'
Forest Oil Corp.	Jake Smith #12	300'N 300'E SWc NE NW Sec. 10-1N-12W	4- 6-54	1530'
Forest Oil Corp.	Jake Smith #13	200'N 600'W SWc NW NW Sec. 10-1N-12W	4-17-54	1558'
Forest Oil Corp.	J. Smith #14	600'N 400'W SEc NW NW Sec. 10-1N-12W	5-18-54	1515'
Francis L. Beard	Clarence Thonert #1	330'N 330'E SWc SE SE Sec. 10-1N-12W	12-14-54	1650'
Mack Leighty	Tracy Price #5	140'N 970'W SEc Sec. 12-1N-12W	5- 8-54	1460'
William H. Bass	Gilliatt Comm. #3	2463'N 330'W SEc Sec. 13-1N-12W	10- 4-54	1519'
Keneipp & Beuligmann	Price #4	201'S 42'W NEc NE NE SW Sec. 14-1N-12W	11-10-54	1638'
Keneipp & Beuligmann	Price #6	74'S 424'E NWc SE Sec. 14-1N-12W	11- 4-54	1642'
Cecil Keneipp	Gilliatt-Price #2	409'N 330'W SEc NE Sec. 14-1N-12W	11-27-54	1488'
Illinois Oil Co.	E. Tennis #1	330'N 330'W SEc NW Sec. 18-1N-12W	5-29-54	1568'
T. M. Egan	Harold M. Newsum et al #1	330'S 330'E NWc SW NW Sec. 19-1N-12W	12- 8-54	1585'
West Drilling Co.	West Drilling Co. #2	330'N 330'E SWc SE Sec. 19-1N-12W	9-18-54	1597'
J. C. Westfall	Albert R. Woods #1	330'S 330'W NEc NW SW Sec. 19-1N-12W	9- 6-54	1640'
J. C. Westfall	James E. Bass #1	330'S 330'E NWc SW SW Sec. 19-1N-12W	12- 4-51	1701'
J. C. Westfall	Stanley J. Price #2	330'N 590'E SWc NE SW Sec. 19-1N-12W	8-29-54	1635'
J. C. Westfall	Stanley J. Price #3	330'N 330'E SWc NW SE Sec. 19-1N-12W	7-18-54	2473'
J. C. Westfall	Stanley J. Price #7	330'N 330'E SWc NE Sec. 19-1N-12W	10- 8-54	1601'
J. C. Westfall	James E. Bass et al #1	330'S 330'W NEc SE SW Sec. 19-1N-12W	7-27-54	1620'
Mt. Carmel Drilling Co.	Gentry Adams et al #1	330'S 330'W NEc NW NE Sec. 21-1N-12W	6-16-54	2371'

WABASH COUNTY PLUGGING AFFIDAVITS—Concluded

Name of operator	Name of well and number	Location	Date plugged	Total depth
Coon Creek Drilling Co.	Roscoe Schafer #1	1040′N 330′E SWc SE Sec. 28-1N-12W	9–30–54	1300′
Coon Creek Drilling Co.	Canedy #1	330′N 990′E SWc NE Sec. 28-1N-12W	11–14–54	1694′
George S. Engle	Wilkinson #2	330′S 330′W NEc SE SE Sec. 14-1N-13W	10–11–54	2363′
J. C. Westfall	Ed Hartwick #1	330′S 330′W NEc NE NE NE Sec. 25-1N-13W	9–29–54	1670′
Whaley Oil Corp.	Morgan Comm. #1	330′N 330′E SWc NW Sec. 34-1N-13W	8–26–54	2726′
Illinois Mid-Continent Co.	Sam Mayne Heirs #1	330′S 990′W NEc S½ NE SE Sec. 26-1N-14W	9– 8–54	2464′
E. H. Morris	Brinkley-Dager Unit #1	1650′S 330′E NWc SE Sec. 31-2N-11W	1–27–54	2101′
Coon Creek Oil Co.	French et al Comm. #2	330′N 330′W SEc NE SW Sec. 32-2N-12W	12– 5–54	1580′
Hubb Oil Co.	F. E. Leathers #1	330′S 330′E NWc NE Sec. 33-2N-12W	12– 3–54	2309′
Charles Zanetis	Hosmer-Adams #1 Comm.	330′S 330′W NEc SW NE Sec. 33-2N-12W	9–11–54	2183′
Illinois Oil Co.	Hershey Heirs #1	990′S 330′W NEc NW Sec. 35-2N-12W	11–29–54	1468′
Illinois Oil Co.	R. L. Hershey #1	1225′N 1068′W SEc NW Sec. 35-2N-12W	12–31–54	2044′
Illinois Oil Co.	Smith-Nigh et al Comm. #2	330′N 330′E SWc NW SW NW Sec. 36-2N-12W	10 –5–54	1470′
Juan Petroleum Co.	Stice #1	330′N 330′E SWc SE SE Sec. 21-2N-13W	7–20–54	2563′
Forest Oil Corp.	I. Y. Strockbine #15	260′S 350′W NEc NW NE NE Sec. 11-10N-10E	12–21–54	643′
Samuel C. Yingling	Mary B. Carson #2	20′N 540′E SWc SW SW Sec. 16-1S-12W	1–20–54	2012′
Olds Oil Co.	Clara B. Ford #1	330′S 252′W NEc SE NE NE Sec. 20-1S-12W	6–23–54	2069′
Price Dunbar	Schuler-Baird Comm. #1-B	990′S 330′W NEc NW NW Sec. 20-1S-12W	9– 7–54	2052′
Juan Petroleum Co.	John Kreig #1	330′N 330′W SEc Sec. 29-1S-12W	8–13–54	2450′
Juan Petroleum Co.	Parkinson-Kreig #1 Comm.	330′N 330′E SWc NE SE Sec. 29-1S-12W	7–10–54	2453′
Davis Lambert	Davis Lambert #1	330′S 330′E NWc NE SE Sec. 30-1S-12W	6–28–54	2901′
Sinclair Wyoming Oil Co.	Elizabeth Majors #1	330′S 330′E NWc SW Sec. 2-1S-13W	11–17–54	2456′
Sinclair Wyoming Oil Co.	Elizabeth Majors #2	330′S 330′E NWc SW SW NW Sec. 2-1S-13W	11–17–54	2456′
Norman and Graef	Grace S. Brines #1	330′N 330′E SWc NW SE Sec. 8-1S-13W	5– 4–54	2580′
Burr Lambert	Francis E. Parkinson #1	330′N 330′E SWc NE Sec. 8-1S-13W	7–14–54	2578′
Magnolia Petroleum Co.	G. A. Struman #5	330′N 330′W SEc NE Sec. 10-1S-13W	6–23–54	2347′
Walter Duncan	Fitch-Bratton Comm. #1	990′S 330′E NWc NE Sec. 11-1S-13W	2–25–54	2650′
Mt. Carmel Drilling Co.	R. A. Dixon #6	330′S 330′W NEc NW Sec. 11-1S-13W	4–14–54	2336′
Carl J. Neer	McKendree College #6	330′N 330′E SWc NW Sec. 11-1S-13W	4–14–54	2299′
Fred A. Bippus	Albert Garwood et al #1	330′S 330′E NWc SE Sec. 16-1S-13W	12–13–54	2739′
J. Frank Hinkle	Berberich #1	330′N 330′W SEc SE NE Sec. 19-1S-13W	11–13–54	2939′
Elmer M. Novak	Leo Keepes #1	330′S 330′W NEc SE Sec. 19-1S-13W	10–19–54	2557′
Roy I. Thompson	M. Berberich #1-A	330′N 330′W SEc SW NW Sec. 20-1S-13W	12–11–54	2658′
Paco Petroleum Corp.	Sterl #1	330′S 330′E NWc SE NW Sec. 22-1S-13W	8– 4–54	2527′
Ernest I. Barker	Steckler #1	330′N 330′E SWc NE NW Sec. 24-1S-13W	4–16–54	2263′
The Noah Petroleum Co.	Grover C. Leipold #1	330′S 330′W NEc SW NE Sec. 25-1S-13W	7–18–54	2626′
Davis Lambert	Gertrude Wells #1	330′N 330′E SWc SE Sec. 29-1S-13W	7–26–54	2610′
Whaley Oil Corp.	Frank Schonaman-Owen Coale Community #1	330′N 330′W SEc SW SW Sec. 29-1S-13W	10–25–54	2690′
R. A. Harris	Jesse E. Goad #1	330′N 900′W SEc Sec. 31-1S-13W	7–14–54	2660′

Operator	Well	Location	Total depth	Date plugged
Wabash County				
Skiles Oil Corp.	Clella Ewald #4	380'S 330'E NWc SE NE NE Sec. 32-1S-13W	2563'	12-18-54
Norman & Graef	William M. Pohl #1	330'N 330'W SEc NW Sec. 33-1S-13W	2557'	3-20-54
Head Oil Co.	J. J. Berberich #2	330'S 330'E NWc SW SW Sec. 18-1S-14W	2940'	3- 9-54
F. J. Fleming	E. H. Morris #1	330'S 330'E NWc SW NE Sec. 26-1S-14W	2972'	10-19-54
Skiles Oil Co.	Landes #1	Sec. 3-2S-13W	2380'	6-11-54
Calvert & Willis	Reed Heirs #1	330'S 330'E NWc Sec. 3-2S-13W	2686'	3-22-54
Skiles Oil Corp.	Maude Cowling #C-2	330'N 330'W SEc NW NE Sec. 7-2S-13W	1510'	9-22-54
Skiles Oil Corp.	Maude Cowling "C" 3	330'S 330'W NEc NW NE Sec. 7-2S-13W	2589'	9-29-54
E. D. Neff	A. P. Bump #4	400'N 200'E SWc NE SW Sec. 9-2S-13W	2424'	5-19-54
C. E. Skiles	Lot 8-Block N-Village of Keensburg, Illinois	Sec. 9-2S-13W	2475'	9-18-54
Nessmer Oil Co.	J. T. Timberlake #1	536'S 2662'E NWc Sec. 14-2S-13W	1950'	1- 9-54
Strotman & Jones	Williams #1	NEc NE Sec. 17-2S-13W	2564'	3-24-54
C. E. Skiles	Ross Cowling #B-1	330'S 330'W NEc SE NE Sec. 18-2S-13W	2581'	9-18-54
L. D. Sawyer	Elizabeth Milburn et al #1	330'S 330'E NWc NE SE Sec. 20-2S-13W	2650'	10-26-54
Dell Carroll	Eva Gray & Mowery Comm. #1	330'N 330'W SEc SW SW Sec. 29-2S-13W	2488'	10-30-54
Dell Carroll	Batson #1	330'N 330'E SWc SE SW Sec. 29-2S-13W	2777'	9-16-54
Continental Oil Co.	C. E. Schauf #3	330'S 1180'W of the center Sec. 30-2S-13W	2805'	2-28-54
S. W. Bardill, Inc.	A. E. Epler #1	330'N 330'E SWc NE SE Sec. 31-2S-13W	2945'	7-20-54
S. W. Bardill	Winifred Gray #1-A	330'N 330'W SEc NW NE Sec. 31-2S-13W	2853'	6- 8-54
Francis L. Beard	H. A. Elkins #1	330'S 1650'W NEc SW Frac. ¼ Sec. Frac. 31-2S-13W	2878'	10- 9-54
Skiles Oil Corp.	A. E. Epler et al #1	990'N 330'W SEc SW Sec. 31-2S-13W	2890'	9-20-54
Don Baines	C. H. Fearheiley #1	330'S 990'E NWc Sec. 32-2S-13W	2897'	11-17-54
A. Eron	Frank Garrett et al #1	Sec. 9-25S-13W	2460'	3- 6-54
Mayhew Oil Co., Inc.	Goodburn-Goebel Comm. #1	330'S 330'E NWc SE NW Sec. 2-2S-14W	3040'	11-28-54
V. R. Gallagher	Broster #1	330'S 330'W NEc NW SE Sec. 35-2S-14W	2600'	7-27-54
V. R. Gallagher	Broster #2	330'S 330'E NWc SW SE Sec. 35-2S-14W	2729'	8-23-54
V. R. Gallagher	Broster #3	330'N 330'E SWc NW SE Sec. 35-2S-14W	2600'	8- 2-54
V. R. Gallagher	Richardson #7	330'S 330'E NWc NE SE Sec. 35-2S-14W	2610'	8-31-54
Victor R. Gallagher	Richardson-Schroeder Comm. #2	330'S 330'W NEc NW NE Sec. 35-2S-14W	2940'	10-14-54
Victor R. Gallagher	Schroeder Comm. #1	330'N 330'E SWc NE NW Sec. 35-2S-14W	2943'	12-23-54
V. R. Gallagher	Kurtz #1	330'S 330'W NEc NW Sec. 36-2S-14W	2920'	5-30-54
Carl J. Neer	Thompson #4	330'S 330'E NWc E½ E½ Sec. 3-3S-13W	2400'	4-28-54
Coy Oil Co.	Dorothy G. UpDeGraff et al #3	990'N 990'E SWc SW NE Sec. 15-3S-14W	400'	7-13-54
Washington County				
Gene Mercer	Mary V. Hodges et al #1	125'S 613'E NWc NE Sec. 25-1N-1W	800'	6-30-54
Canter Drilling Co.	Margaret Bierman #1	330'N 330'W SEc NW NW Sec. 26-1N-1W	1527'	12-17-54
James A. Wasson	Louis Hasenfuss #1	330'N 330'W SEc NE SE Sec. 27-1N-1W	1532'	4- 4-54

WELLS PLUGGED IN 1954—Continued

Operator	Well	Location	Total depth	Date plugged
WASHINGTON COUNTY—Concluded				
H. R. Pennington	George Kuhn #1	330′S 330′W NEc Sec. 28-1N-1W	1559′	1-29-54
Dale Hopkins	Louise Mitchell #1	330′S 330′W NEc NW SE Sec. 28-1N-1W	1500′	3-14-54
Homer Rutherford	Cope #C-3	330′S 330′E NWc SW NW Sec. 35-1N-1W	1476′	5- 1-54
Canter Drilling Co.	Frank Anderjeski #1	850′S 330′E NWc NE NW Sec. 36-1N-1W	1555′	3-29-54
Jet Oil Co.	Rennegarbe Comm. #1	330′S 330′E NWc SE Sec. 19-1N-2W	1295′	12-31-54
Dale Hopkins	Arning Comm. #1	330′N 330′E SWc SE SW Sec. 4-1S-1W	1537′	5-22-54
M. Mazzarino	Riechman #2	330′N 330′E SWc SW SE Sec. 4-1S-1W	1356′	5-18-54
Canter Drilling Co.	Wm. Poggenmueller #1	330′S 330′W NEc SW NW Sec. 6-1S-1W	1515′	11- 8-54
M. Mazzarino	Niermann #1	330′S 330′W NEc SW Sec. 8-1S-1W	1522′	11- 9-54
M. Mazzarino	Kasten #1	330′S 330′E NWc NW SE Sec. 9-1S-1W	1368′	7-16-54
Mazzarino & Kapp	Kasten #2	330′S 330′E NWc SW Sec. 9-1S-1W	1555′	8-18-54
Dale Hopkins	Roy Kasten #1	330′S 330′E NWc NW NE NE Sec. 9-1S-1W	1514′	5-17-54
Mazzarino	Heseman #1	330′N 330′E SWc NE Sec. 10-1S-1W	1424′	10-29-54
Julius Fischer & James Carter	Paul Krueger #1	330′S 330′W NEc SW SE Sec. 1-1S-2W	1505′	7- 7-54
Theodore G. Glass	Theodore Spenner #1	330′N 330′W SEc NW Sec. 12-1S-2W	1550′	4-10-54
Ward W. Dayton	C. Wiese #1	330′S 330′E NWc NE Sec. 16-1S-2W	2936′	8-18-54
Gulf Refining Co.	Hulda Huch #1	330′N 330′E SWc NE Sec. 21-1S-2W	2990′	7-13-54
Bill Montgomery	Alfred Rixmann #1	330′S 330′E NWc SE Sec. 27-1S-2W	1710′	11-16-54
John E. Mulligan	Oscar H. Kleeman #1	330′N 990′E SWc SE NW Sec. 29-1S-2W	1634′	5-12-54
Magnolia Petroleum Co.	August Storck #1	330′S 330′W NEc NW NE Sec. 10-1S-4W	2504′	11-13-54
E. A. Obering	Fred Kampe #1	330′S 330′W NEc SW SE Sec. 15-1S-4W	2630′	5-19-54
E. A. Obering	Rennegarbe #1	330′S 330′E NWc Sec. 25-1S-4W	2660′	3-16-54
Dale Hopkins	Hanke #1	330′N 330′W SEc NE NE Sec. 3-2S-1W	1667′	11-15-54
J. N. Willhite	Ben Nadolski #1	330′N 330′E SWc NE Sec. 15-2S-1W	1640′	11- 1-54
Shulman Brothers	Seibert #1	330′S 330′E NWc SE Sec. 20-2S-1W	1771′	11- 3-54
John L. Lester	Ceglenske #1	330′N 330′W SEc NE Sec. 34-2S-1W	1800′	10-13-54
Inland Oil Co.	Ted Kruski "C" #1	330′S 330′W NEc SW SE Sec. 33-2S-2W	1447′	11-20-54
E. A. Obering	McWilliams #1	330′N 330′W SEc NW NE Sec. 33-2S-2W	3122′	2-18-54
John Beadleston	Ted Kruski #2	330′N 330′E SWc SE SE Sec. 33-2S-2W	1450′	11-13-54
Inland Oil Co.	Ted Kruski #4-A	380′S 380′W NEc SE NE Sec. 33-2S-2W	1463′	6- 9-54
John Beadleston	Waldo Finke #1	455′N 330′E SWc NE NE Sec. 34-2S-2W	1442′	10- 6-54
John Beadleston	Malick #1	330′S 330′W NEc NW SW Sec. 34-2S-2W	1481′	12-24-54
John E. Mulligan	Sig Kaminski #1	330′S 330′W NEc SE SW Sec. 7-3S-1W	1239′	8- 4-54
The Ohio Oil Co.	Schwind Comm. #1	330′N 350′W SEc NE NW Sec. 33-3S-1W	3100′	8- 1-54
Ben J. Taylor & L. A. Schumacher	Pranga #1	330′N 330′E SWc SE NE Sec. 11-3S-2W	1508′	8-12-54
W. O. Allen	Deering #1	330′S 330′E NWc SW SE Sec. 12-3S-2W	1364′	4- 3-54
E. A. Obering	Joe Jessa #1	330′S 330′E NWc SW NW Sec. 15-3S-2W	4061′	8- 4-54
E. M. Self	Joseph Damazyn #1	330′S 330′W NEc SE NW Sec. 20-3S-2W	1372′	11-22-54
Shell Oil Co., Magnolia (Manitou)	Shell Oil Co., Oak Grove Cemetery #1	160′S 169′E SEc SE SW Sec. 15-3S-3W	1288′	4-26-54
Shulman Bros.	M. H. Mazander #1	330′S 330′E NWc NE SW Sec. 5-3S-4W	2437′	6-11-54
The Carter Oil Co.	G. Eubinger #1	330′N 330′E SWc SE NE Sec. 10-3S-5W	2538′	11-21-54
The Carter Oil Co.	H. Weber #1	330′S 330′E NWc NE Sec. 10-3S-5W	2533′	4-17-54

Wayne County

Walter Pigorsch	Glenn Hoover Comm. #1	330′N 330′W SEc NW NW Sec. 11-1N-5E	3040′	9-23-54
National Associated Petroleum Co.	D. H. Paul "A" #2	330′S 330′W NEc SW SE Sec. 14-1N-5E	3023′	12- 8-54
Estate of N. V. Duncan	Lillie Aug #1	405′N 330′W SEc NW SE Sec. 23-1N-5E	3088′	12-22-54
James F. McCollum & Haroland Kincaid	J. E. Holleman #1	330′N 330′W SEc NW SE Sec. 29-1N-5E	3000′	8-15-54
Fletcher F. Farrar	E. O. Medder #1	330′S 330′W NEc SW NW Sec. 33-1N-5E	2950′	9-29-54
Walter Duncan	J. W. Harrell et al #1	330′S 330′E NWc SW NE Sec. 4-1N-6E	3290′	2-22-54
Elizabeth K. Lewis	Anthony Pennington #1	330′S 330′W NEc SE Sec. 29-1N-6E	3249′	12-22-54
McKelvy & Sipoha	Emma Schell #1	330′N 330′W SEc NE Sec. 36-1N-6E	3254′	8- 3-54
McKelvy & Sipoha	W. H. Robertson #1	330′N 660′W SEc NE NE Sec. 2-1N-7E	3031′	5-13-54
Paco Petroleum Co.	Barth-Carson Cons. #1	330′S 330′E NWc SE Sec. 2-1N-7E	3036′	3-21-54
National Associated Petroleum Co.	Barth-Pomeroy "A" #2	380′N 330′E SWc NW SE Sec. 9-1N-7E	3241′	6- 4-54
National Associated Petroleum Co.	Minnie Bircket #1	330′N 330′E SWc Sec. 11-1N-7E	3052′	6-16-54
Fletcher F. Farrar	C. R. Orr "A" #3	330′S 330′E NWc SE SW Sec. 12-1N-7E	3004′	8-16-54
National Associated Petroleum Co.	Omer Johnson #2	330′N 330′E SWc SE SE Sec. 12-1N-7E	3084′	6- 8-54
The Pure Oil Co.	J. W. Barth-B #6	330′N 330′E SWc NE SE Sec. 12-1N-7E	2996′	5- 8-54
The Pure Oil Co.	J. W. Barth-B #7	330′S 330′E NWc NE SE Sec. 12-1N-7E	3046′	6- 6-54
The Pure Oil Co.	J. W. Reid #5	330′N 330′E SWc NW SE Sec. 12-1N-7E	3010′	5- 1-54
New Illinois Mid-Continent Oil Co.	Dobbs-Obrecht Comm. #1	330′N 330′E SWc NE SE Sec. 13-1N-7E	3135′	7- 6-54
Raymond Abner	Bradley #1	330′S 330′E NWc SW SE Sec. 23-1N-7E	3250′	6-17-54
T. M. Pruett	Earl Dye, Comm. #1	330′S 330′E NWc SE SE Sec. 17-1N-7E	3081′	11- 9-54
National Associated Petroleum Co.	Jennie Marie Rutger #1	330′N 330′W SEc NE NE Sec. 17-1N-7E	3183′	3-20-51
Jas. N. Hockman	Charles Billington #1	330′N 330′E SWc NW SE Sec. 23-1N-7E	3183′	7-27-54
Nash Redwine	B. K. Leach #1	330′N 330′E SWc NE SW Sec. 32-1N-7E	3323′	6- 6-54
J. W. Steele	Clay #1	330′S 330′W NEc SE SW Sec. 23-1N-7E	3402′	5-14-54
National Associated Petroleum Co.	Rosa Miller #1	330′S 660′W NEc Sec. 7-1N-8E	3074′	11- 8-54
Calvert Drilling, Inc.	Barth #1	330′S 330′E NWc NE NE Sec. 16-1N-8E	3146′	9- 3-54
West Drilling Co.	Geo. E. Jones #1	330′N 330′E SWc SE NW Sec. 24-1N-8E	3130′	9-13-54
Dr. Irl J. Neal	Oliver M. Holmes #1-A	330′N 330′W SEc SW Sec. 26-1N-8E	3027′	3-15-54
Welby M. Wadden	Walker #1	330′S 330′E NWc NE NW Sec. 27-1N-8E	3099′	8-16-54
Calvert Drilling, Inc.	L. M. McGalasson #1	330′N 330′E SWc Sec. 30-1N-8E	3237′	4-24-54
Cullum & Lawhead	William F. Molt #1	330′S 330′W NEc SE NE Sec. 32-1N-8E	3217′	5- 6-54
Cullum & Lawhead	Cullum & Lawhead's Farris #3	330′N 330′W SEc NE NW Sec. 34-1N-8E	3133′	7-17-54
Whaley Oil Corp.	Piper Heirs #1	330′S 330′E NWc NE Sec. 3-1N-9E	3248′	7-26-54
John Wrather	Yondorf-Ascher #4	330′N 330′E SWc SE NW Sec. 3-1N-9E	3240′	8-26-54
Estate of N. V. Duncan	James A. Clark #1	330′N 330′E SWc NE NW Sec. 8-1N-9E	3253′	10-24-54
Illinois Oil Producing Corp.	Koenecke Heirs #1	SEc SE SE Sec. 12-1N-9E	3241′	6- 5-54
W. H. Bears	A. Eichmann #1	330′N 330′E SWc NW SE Sec. 22-1N-9E	3281′	11-22-54
National Associated Petroleum Co.	Guy McKibben #1	330′S 990′E NWc SW NW Sec. 26-1N-9E	3430′	8-20-54
T. M. Bane	Kieffer Heirs #1	330′N 330′E SWc SE NW Sec. 11-1S-6E	3060′	11-15-54
Calvert Drilling, Inc.	L. B. Stevenson #1	330′N 330′W SEc NW SW Sec. 11-1S-6E	3065′	9- 8-54
N. V. Duncan	Dickey Heirs #1	660′N 660′E SWc NE Sec. 20-1S-6E	3227′	5- 5-54
N. V. Duncan	Dickey Heirs #B-1	330′S 330′E NWc NE NE Sec. 20-1S-6E	3210′	8- 7-51
C. M. Rognlien	Cravens Heirs #2	660′S 330′W NEc Frac. NW NE Sec. 4-1S-7E	3224′	4-26-54
F. L. Strickland	Schuman #1	3339′N 333′W SEc NW NW Sec. 14-1S-7E	3150′	2- 5-54
Nash Redwine	Avery #1	330′N 330′W SEc NW SW Sec. 14-1S-7E	3182′	10- 2-54
The First National Petroleum Trust	C. E. Harris #1	330′N 330′E SWc Frac. NW Sec. Frac. 19-1S-7E	3312′	6- 1-54
George Zicob	Rude E. Smith et al #1	330′S 405′W NEc NW SE Sec. 21-1S-7E	3295′	9-25-54
Oil Well Drilling Co.	T. J. Hilliard A-#4	330′S 647′E NWc SW NE NW Sec. 34-1S-7E	3302′	5- 5-54

WELLS PLUGGED IN 1954—Continued

Operator	Well	Location	Total depth	Date plugged
WAYNE COUNTY—Concluded				
Stengele, Al	Withrow Cons. #1	NE quarter Sec. 34-1S-7E	3289′	4-29-54
Floyd & Henson, Inc	Simms #1 Comm.	330′N 330′W SEc Sec. 34-1S-7E	3198′	10- 7-54
Jenkins, T. G.	D. T. Bunting #2	330′S 330′E NWc SE Sec. 35-1S-7E	3298	4-27-54
Calvert Drilling, Inc	Hagans #1	330′S 330′E NWc SW Sec. 5-1S-8E	3150′	3-19-54
Sanders-Fye Drilling Co.	C. M. Hobard #1	330′N 450′W SEc Frac. NW Sec. 6-1S-8E	3170′	5-21-54
Wayne Misener Drilling Co.	Van Fossan #1	330′N 330′E SWc SE Sec. 12-1S-8E	3194′	11-15-54
The Nation Oil Co.	J. E. Price #1	330′S 330′E NWc NE Sec. 13-1S-8E	3180′	10-27-54
R. A. Harris	Osterman #1	330′N 330′E SWc SE NW Sec. 14-1S-8E	3189′	4-26-54
Perry Fulk	S. J. Wilson #1-A	330′N 330′E SWc SE NE Sec. 15-1S-8E	3199′	3-19-54
J. W. Rudy	B. F. Ellis #1	330′N 330′E SWc SW NE Sec. 15-1S-8E	3100′	9-14-54
Slagter Producing Co.	Harry Carter #3-A	330′S 330′W NEc NW Sec. 16-1S-8E	3225′	7-12-54
Ben J. Taylor & L. A. Schumacher	Meade #1	330′S 330′W NEc SW SW Sec. 20-1S-8E	3308′	9-20-54
Slagter Producing Co.	O. H. Gray #3-E	330′S 330′W NEc NW NW Sec. 21-1S-8E	3265′	5- 3-54
Thos. A. Mitchell	Borah #1	330′S 400′E NWc NE NE Sec. 23-1S-8E	3100′	10- 5-54
M. H. Caldwell	Sterling Ellis #E-2	330′S 330′W NEc SW SE Sec. 27-1S-8E	3132′	8- 5-54
M. H. Caldwell	Sterling Ellis #E-1	330′N 330′E SWc SE Sec. 27-1S-8E	3127′	8- 7-54
Calvert Drilling, Inc	Locke-Atterberry Comm. #1	330′N 330′E SWc NE NW Sec. 29-1S-8E	3378′	5- 3-54
The Pure Oil Co.	Hal Bradshaw-A #1	330′S 330′W NEc SW SE Sec. 29-1S-8E	3308′	4-22-54
The Pure Oil Co.	F. J. Dawson #1	330′S 380′W NEc SW Sec. 29-1S-8E	3341′	11-17-54
Slagter Producing Co.	Wooden #1	330′N 330′W SEc NE NW Sec. 31-1S-8E	3418′	11-29-54
The Nation Oil Co.	E. E. McLin #3	330′N 330′E SWc SE SW Sec. 33-1S-8E	3274′	5- 6-54
Wayne Misener Drilling Co.	P. R. Hill #1	330′S 330′E NWc SW SW Sec. 35-1S-8E	3253′	10-1-54
Slagter Producing Co.	Bushong #1	330′N 330′E SWc NW NE Sec. 8-1S-9E	3419′	5-10-54
Slagter Producing Co.	C. E. McDowell #1	330′S 330′W NEc NW Sec. 17-1S-9E	3349′	7-29-54
The Nation Oil Co.	Thomas H. Creighton, Jr. #1	330′N 330′E SWc NW NE Sec. 19-1S-9E	3356′	7- 2-54
George Zicos	Edgar Lee #1	330′S 330′E NWc NE SW Sec. 36-2N-5E	3023′	6-29-54
National Associated Petroleum Co.	John G. Wright #1	330′N 330′W SEc Sec. 23-2N-7E	3079′	11-15-54
Irl J. Neal	T. R. Michels #3-1	330′N 330′W SEc NW NE Sec. 26-2N-7E	3091′	5-17-54
Keystone Oil Co.	W. A. Yates #1	330′N 330′W SEc Sec. 28-2N-7E	3022′	9-11-54
Keystone Oil Co.	Thompson #1	330′S 455′W NEc Sec. 33-2N-7E	3020′	5-24-54
The Pure Oil Co.	B. F. Reid #2	330′N 330′W SEc NE SE Sec. 36-2N-7E	2960′	7-26-54
The Noah Petroleum Co.	Daniel W. Boone #1	330′N 330′E SWc SE NE Sec. 23-2N-8E	3092′	10- 6-54
Calvert Drilling, Inc.	Daubs #1	330′S 330′W NEc SW SE Sec. 31-2N-9E	3202′	11-26-54
Gulf Refining Co.	L. A. Blackburn #1	SW NW Sec. 1-2S-7E	3329′	2-10-54
T. G. Jenkins	August Carlsen #C-1	330′N 330′W SEc NW SW Sec. 3-2S-7E	3258′	5- 7-54
The Nation Oil Co.	M. Connick #1	330′S 330′W NEc SW Sec. 4-2S-7E	3273′	6-20-54
E. E. McLin	E. E. McLin #3	660′N 660′E SWc NE Sec. 9-2S-7E	3261′	2- 1-54
T. G. Jenkins	Lawrence B-1	330′S 330′E NWc SW SW Sec. 27-2S-7E	3347′	12- 6-54
Wayne Misener Drilling Co.	Tribe #1	330′N 330′E SWc NE Sec. 36-2S-7E	3477′	7- 9-54
Perry Fulk	Ped Bonner #1	330′S 330′W NEc Sec. 8-2S-8E	3280′	6-11-54
D. B. Lesh Drilling Co.	R. L. William #2	330′N 330′E SWc NE NE Sec. 9-2S-8E	3343′	12-11-54

D. B. Lesh Drilling Co.	R. L. Williams #1	330'S 330'E NWc NE NE Sec. 9-2S-8E	3292'	12-16-54
Cities Service Oil Co.	Mary C. P. Tice #1	330'S 330'E NWc NE Sec. 20-2S-8E	3224'	9-18-54
Cities Service Oil Co.	M. Clark #1	330'S 330'E NWc SW NW NW Sec. 20-2S-8E	2974'	2-19-54
Cities Service Oil Co.	Mary Clark #2	330'S 330'W NEc SE NW NW Sec. 20-2S-8E	2950'	11-4-54
Perry Fulk	O. F. Simpson #B-2	330'N 330'E SWc NE SE Sec. 28-2S-8E	3467'	4-16-54
Perry Fulk	G. T. Caldwell "B" #1	330'N 330'W SEc NE NW Sec. 28-2S-8E	3332'	8- 5-54
Sun Drilling Co.	Mary Beiswenger #1	330'S 330'W NEc Sec. 33-2S-8E	3465'	5-26-54
McKelvy & Sipolia	Brose Vaughan #1	330'N 660'E SWc NW Sec. 36-2S-8E	3450'	5- 6-54
New Illinois Mid-Continent Oil Co.	C. E. Robbins, et al #1	330'N 330'W SEc SW SW Sec. 9-2S-9E	3377'	9- 1-54
Alva C. Davis	L. L. Shephard #1	330'S 330'E NWc SW SE Sec. 11-2S-9E	3375'	9- 8-54
Nation Drilling Co.	T. M. Pettigrew Comm. #1	330'N 330'E SWc Sec. 12-2S-9E	3440'	7-29-54
Paco Petroleum Corp.	Woods Community #1	330'S 330'W NEc SE NE Sec. 13-2S-9E	3394'	8-20-54
Sanders-Fye Drilling Co.	Woods-Michels Comm. #1	330'N 330'W SEc Sec. 13-2S-9E	3406'	9-15-54
Shure Oil Co.	C. E. Winter #1	330'S 330'W NEc SW Sec. 23-2S-9E	3305'	6-29-54
Shure Oil Co.	Clyde Winter #2	330'S 330'W NEc Sec. 23-2S-9E	3301'	12-26-54
Illinois Mid-Continent Co.	Howard Siefert #3	330'N 330'W SEc SW SE Sec. 24-2S-9E	3310'	4-30-54
Ben Prentiss	F. Piercy #1	340'N 320'E SWc NE Sec. 24-2S-9E	3284'	11-20-54
Alva C. Davis	James Pettigrew #1	330'S 330'E NWc SW Sec. 25-2S-9E	3362'	10-10-54
Aubry & Tennant	E. Jones #1	330'N 330'E SWc SE SE Sec. 26-2S-9E	3091'	2- 9-54
Shure Oil Co.	William L. O'Daniel #1	330'N 330'E SWc NW SW Sec. 36-2S-9E	3483'	11-29-54
New Illinois Mid-Continent Oil Co.	Laura Sunderland #1	330'N 330'W SEc NW NE Sec. 3-3S-8E	3482'	9-10-54
Calvert Drilling, Inc.	Betzer et al #1	330'N 330'W SEc NW Sec. 10-3S-8E	3565'	7- 2-54
WHITE COUNTY				
C. E. Brehm	Porter Crebs #1	330'N 330'W SEc NW NE Sec. 2-1S-9E	2654'	2-26-54
National Associated Petroleum Co.	Wm. Tullis #1	330'S 330'E NWc SE NE Sec. 29-3S-8E	3444'	5-17-54
Sun Oil Co.	Robert P. Williams #1	330'N 330'W SEc Sec. 23-2S-9E	3405'	10-28-51
A. Sturm & Sons	Jonnie Elliott #1	330'N 330'W SEc SW Sec. 27-3S-9E	3440'	11-30-54
N. V. Duncan	Owen Matz #1	330'S 330'E NWc NE SW Sec. 28-3S-9E	3387'	4- 7-54
W. O. Lucas	Carson Pollard #1	330'N 660'W SEc NE SE Sec. 28-3S-9E	3406'	3-27-54
Q. B. Mitchell	Stephens-Pollard #1	330'N 330'E SWc SE NE Sec. 34-3S-9E	3472'	9- 7-54
Ralph Halbert	W. F. Ridenour #1	330'S 990'W NEc NW NE Sec. 21-3S-10E	3332'	5-25-54
R. Mitchell-Yingling Oil Co.	Hatcher #1	SEc NE SE Sec. 22-3S-10E	3304'	1- 2-54
Don Baines	B. Millar #1	330'N 330'W SEc SW SE Sec. 24-3S-10E	3223'	4-23-54
Wayne Misener Drilling Co.	Charles Groff #1	330'N 330'W SEc SW Sec. 25-3S-10E	3075'	4- 2-54
C. E. Skiles	Bess Blood Williams et al #1	330'N 330'W SEc NE NE Sec. 28-3S-10E	3175'	11- 4-54
Charles E. Fisher, Jr.	Endicott et al #1	330'N 330'W SEc NW Sec. 28-3S-10E	3159'	8- 1-54
E. F. Moran, Inc.	Jesse Lamont #1	330'S 330'E NWc Sec. 31-3S-10E	3450'	4-23-54
Calvert Drilling, Inc.	Suma R. Powell #1	330'N 330'W SEc Sec. 31-3S-10E	3346'	5- 1-54
Sam Tipps	Carl Cassidy #1	330'S 330'E NWc SW SW Sec. 6-4S-8E	3294'	10-12-54
Whaley Oil Corp.	Robert Brown #1-C	330'S 500'W NEc SW NW Sec. 12-4S-9E	3410'	9-13-54
Murvin & Steber	Schudamore-Randolph Comm. #2	330'N 330'E SWc NE NE Sec. 13-4S-9E	3260'	3-15-54
The Superior Oil Co.	Caroline Morril et al #1	330'N 330'W SEc SW SW Sec. 21-4S-9E	3182'	10- 8-54
E. A. Obering	Bohleber #1	330'N 330'E SWc SE NW NE Sec. 21-4S-9E	3385'	4- 8-54
The Nation Oil Co.	Joe Williams #1	1324'S 330'E NWc SE Sec. 25-4S-10E	3087'	4- 2-54
Calvert Drilling, Inc.	Zola Shepard #2	330'N 330'W NW NE Sec. 5-4S-10E	3052'	5-10-54
Murvin & Steber	L. K. Jones #1-B	330'S 990'W NEc SW NW Sec. 7-4S-10E	2996'	12- 9-51
Skelly Oil Co.	Bryant "A" #1	330'N 330'E SWc SE NW Sec. 8-4S-10E	3274'	8- 4-54
Olen D. Sharp	H. C. Knight #1	330'N 330'E SWc NW Sec. 14-4S-10E	3240'	12- 5-54

WELLS PLUGGED IN 1954—Concluded

Operator	Well	Location	Total depth	Date plugged
WHITE COUNTY—Continued				
F. T. Shelton	School District #4, Well #2	330′S 330′E NWc NW NW Sec. 18-4S-10E	2868′	3-27-54
Homer Luttrell	Claire A. Williams et al #1	990′N 990′W SEc NW Sec. 19-4S-10E	3235′	7- 1-54
Slagter Producing Co	Ada Stokes et al #1	330′S 330′E NWc SW SE Sec. 21-4S-10E	3210′	8-20-54
National Associated Petroleum Co	Grace Higginson #1	330′N 330′E SWc NW NE Sec. 22-4S-10E	3130′	9-27-54
The West Drilling Co	J. E. Dennis #1	330′S 330′W NEc SE Sec. 24-4S-10E	3077′	10- 9-54
Nation Oil Co	G. Bramlet #1	330′S 330′W NEc SW Sec. 25-4S-10E	3032′	1-19-54
Ashland Oil & Refining Co	Black & Stokes et al Comm. #1	990′S 330′E NWc NE Sec. 28-4S-10E	3060′	3- 9-54
Lohmann & Johnson Drilling Co., Inc	John Spencer & Pearl Givens #1	330′S 330′W NEc SW Sec. 35-4S-10E	3140′	5-22-54
Toklan Production Co	J. E. Stine #1	330′S 330′E NWc NE NW Sec. 4-5S-8E	3520′	12-22-54
E. A. Obering	Enrhardt et al #1	330′S 330′E NWc SE NE Sec. 12-5S-8E	3373′	11- 5-54
L. F. Wilson	Virgil T. Murphy #1	330′N 330′E SWc Sec. 13-5S-8E	3329′	2-19-54
Olen D. Sharp	M. E. Hubele #1	330′S 330′W NEc SW SW Sec. 15-5S-8E	3464′	11- 7-54
National Associated Petroleum Co	J. Oren Renshaw #1	330′S 330′W NEc SW Sec. 16-5S-8E	3467′	6-18-54
W. C. McBride, Inc	Clarence J. Olsen #1	330′N 330′W SEc NW NW Sec. 24-5S-8E	3275′	3-20-54
National Associated Petroleum Co	Ruth Simmons et al #1	330′S 660′W NEc SW Sec. 25-5S-8E	3254′	1-25-54
E. Paul DuPont, Jr., Trustee	Randall Williams #1	330′S 330′E NWc NE SW Sec. 3-5S-9E	3365′	8- 3-54
E. Paul DuPont, Jr., Trustee	Henry Gates #1	330′S 330′W NEc NW SW Sec. 3-5S-9E	3371′	8-17-54
Murvin & Steber	Carl H. Cherry #1	330′S 330′W NEc SW SE Sec. 4-5S-9E	3225′	11-21-54
National Associated Petroleum Co	Alma M. Matz #1	659′S 330′E NWc Sec. 6-5S-9E	3228′	4- 2-54
C. E. Skiles Oil Co	J. W. Powers #1	NEc NE NW Sec. 7-5S-9E	3335′	5-12-54
The Nation Oil Co	Powers #2	330′N 330′W SEc NW NW Sec. 7-5S-9E	3360′	5- 1-54
Murvin & Steber	Puckett #1	330′N 330′W SEc Sec. 8-5S-9E	3403′	3-31-54
Eastern Petroleum Co	R. M. Wylie #1	330′S 330′E NWc SW NE Sec. 19-5S-9E	3224′	3-26-54
C. E. O'Neal & Co	George Cecil Renshaw #1	330′S 330′W NEc NW NE Sec. 20-5S-9E	3408′	12- 8-54
J. H. Miskell	H. V. Vaught #1	330′S 330′W NEc SE SW Sec. 24-5S-9E	2800′	9- 9-54
Don Baines	R. Tate #1	330′N 990′W SEc SW SE Sec. 35-5S-9E	3234′	4-21-54
Coy Oil, Inc	Arthur E. Kern & Ada Bennett Comm. #1	330′N 330′W SEc NW SW Sec. 2-5S-10E	3185′	3- 5-54
Magnolia Petroleum Co	Gail Williams #1	330′N 330′W SEc NW SE Sec. 5-5S-10E	3165′	7-14-54
The Texas Co	C. H. Stephan #1	330′S 330′W NEc SW Sec. 5-5S-10E	3239′	8-16-54
George & Wrather Drilling Co	Rosa Stockhowe et al #1	330′S 330′E NWc SW SW Sec. 6-5S-10E	3305′	12- 4-54
New Illinois Mid-Continent Oil Co	Mary Seitz #1	330′S 330′W NEc Sec. 6-5S-10E	3195′	12- 1-54
Walter Duncan	Emil Botsch #1	330′N 990′W SEc NE SW Sec. 6-5S-10E	3116′	7-20-54
Indiana Farm Bureau Coop. Association, Inc	William H. Creek #1	330′S 330′E NWc NE SW Sec. 15-5S-10E	3140′	4-25-54
Eastern Petroleum Co	Henry Fechter #1	330′N 330′W SEc SW NW Sec. 22-5S-10E	3005′	12- 5-54
Herndon Drilling Co	W. F. Ackerman #E-1	330′N 330′E SWc NW NW Sec. 25-5S-10E	3070′	10- 3-54
Lohmann-Johnson Drilling Co	F. S. Ackerman #1	330′N 330′W SEc NW Sec. 26-5S-10E	3000′	6-16-54
National Associated Petroleum Co	Hanna-Smith Comm. #1	330′S 330′E NWc Sec. 27-5S-10E	3145′	10-10-54
Dean & Hallowell	Hanna #1	330′N 330′E SWc NE Sec. 28-5S-10E	1340′	6- 5-54
Indiana Farm Bureau Coop. Association, Inc	Herderson P. Land #1	330′N 330′W SEc SW SE Sec. 32-5S-10E	3086′	3-17-54
Brener & Robinson	Chas. H. Hill #1	330′N 990′E SWc SE SE Sec. 34-5S-10E	2996′	6-12-54
Gilliam Drilling Co	Hines #2	330′S 330′W NEc NW SW Sec. 36-5S-10E	2969′	2-16-54
Eastern Petroleum Co	Walter Hines #1	330′N 330′W SEc NW SW Sec. 36-5S-10E	3052′	6-30-54

Herndon Drilling Co	Slemaker #3	330'N 330'E SWc NW NW Sec. 36-5S-10E	3017'	7-30-54
The Superior Oil Co	E. S. Greathouse #21	330'N 330'E SWc NW Sec. 3-5S-14W	2971'	5- 3-54
V. R. Gallagher	Woods Estate #1	330'S 330'E NWc SE NE Sec. 15-5S-14W	2500'	8-12-54
E. H. Morris	Morris and Schenk #1	330'N 330'W SEc NE NW Sec. 21-5S-14W	2419'	10- 9-54
Coy Oil, Inc	H. J. Alford et al #1	330'S 330'E NWc SE NW Sec. 29-5S-14W	3039'	3-22-54
Ernest I. Barker	Mary Accord #3	330'S 330'W NEc SE SW Sec. 13-6S-8E	3032'	6- 9-54
Calvert Drilling, Inc	R. A. McCallister #1	330'S 330'W NEc NW SE Sec. 14-6S-8E	3700'	3- 3-54
Vandnbark-McGuire Drilling Co	Fred C. Jordan #1	330'N 330'E SWc NE Sec. 16-6S-8E	3312'	10- 3-54
Calvert Drilling, Inc	Ethel Mosley et al #1	330'S 330'W NEc SE NE Sec. 24-6S-8E	3134'	3-18-54
Clark & Clark	Leo Raney #4	330'N 330'E SWc NE SE Sec. 24-6S-8E	1429'	8-10-54
Shell Oil Co	J. H. Porter #1	330'S 330'E NWc NE NE Sec. 24-6S-8E	2740'	6-10-54
Clark & Clark	Otto Catlin et al #2	330'S 330'W NEc NW SE Sec. 25-6S-8E	3092'	11- 3-54
Vandenbark-McGuire Drilling Co	W. E. Johnson #1	330'S 330'E NWc SE SW Sec. 26-6S-8E	3140'	5-10-54
Keystone Oil Co	Dora Johnson #1	330'N 330'W SEc SW SE Sec. 26-6S-8E	3097'	7-25-54
F. L. Strickland	DeBoard #1	330'N 330'E SWc NW SE Sec. 28-6S-8E	2862'	6-22-54
F. L. Strickland	DeBoard Comm. #9	330'S 910'E NWc SE Sec. 28-6S-8E	3132'	6-17-54
C. E. Brehm Drilling & Producing	C. Harper Comm. #2	330'S 330'E NWc SE SE Sec. 32-6S-8E	3156'	11- 6-54
Tom K. Whittington	Delap Comm. "B" #3	330'N 330'E SWc NW Sec. 33-6S-8E	3160'	9-30-54
Davis-Menhall Drilling Co., Inc	Clyde Bruce #1	330'S 330'E NWc NE SE Sec. 33-6S-8E	3155'	9-13-54
Keystone Oil Co	Reddy #1	330'S 330'W NEc SW SW Sec. 35-6S-8E	2982'	11-15-54
Calvert Drilling, Inc	Louella Manley et al #1	330'S 330'E NWc NE SE Sec. 8-6S-9E	3235'	8- 9-54
B. L. Rucker-Nation Oil Co	M. G. Austin #1	660'N 330'E NWc SW NW Sec. 27-6S-9E	2281'	1-13-54
B. L. Rucker	Lear Austin #1	330'S 330'E NWc SW SW Sec. 27-6S-9E	2328'	1-16-54
B. L. Rucker-Nation Oil Co	Edgar Benn #1	330'E NWc SW Sec. 27-6S-9E	2348'	1-11-54
Herndon Drilling Co	Gideumb #1	330'N 330'W SEc SW SE Sec. 31-6S-9E	3263'	11- 1-54
W. H. Dickerson	Guy Ackerman et al #1	330'S 330'W NEc SE SE Sec. 3-6S-10E	3050'	12-22-54
Collins Bros. Oil Co	N. H. McQueen #1	330'S 330'W NEc SE Sec. 6-6S-10E	3186'	12-23-54
Falcon Oil Corp	L. M. Pumphrey #1	330'N 990'W SEc NW Sec. 9-6S-10E	3165'	12-18-54
Wayne Misener Drilling Co	McElvain #1-D	330'N 380'W SEc SW NE Sec. 13-6S-10E	2000'	6-20-54
Magnolia Petroleum Co	Tar Springs Unit #26	330'N 333'E SWc SE SE Sec. 24-6S-10E	2268'	5-11-54
Leslie Oil Co	S. H. Arnold #1	990'N 330'E SWc NE Sec. 18-6S-11E	2584'	4- 7-54
Magnolia Petroleum Co	Wilson #1	330'E 990'S NWc NE NW Sec. 19-6S-11E	2300'	3- 1-54
Calvert Drilling Inc	R. Cook #1	330'S 330'E NWc SE SW Sec. 3-7S-8E	3104'	2-15-54
Jack Hinkle Drilling Co	Joe S. DeLap #3	330'S 330'W NEc SW SW Sec. 4-7S-8E	2747'	3- 8-54
Walter Duncan	Spence #1	330'S 330'W NEc NW Frac. NW¼ Sec. 4-7S-8E	3172'	12-28-51
W. L. Belden	Maggie DeLap #1	330'S 330'W NEc Sec. 8-7S-8E	3069'	3- 3-54
James A. Matthews	Spence #1	330'S 330'E NWc SW NW Sec. 10-7S-8E	3050'	1-30-54
Murvin & Steber	Hamilton-Farris Comm. #1	1114'N 809'E SWc SE SW Sec. 13-7S-8E	3050'	3-27-54
M. W. Ahlmeyer d/b/a Midland Oil Co	Hamilton Heirs #1	330'S 330'W NEc SE SW Sec. 14-7S-8E	2912'	10-20-54
Calvert Drilling, Inc	S. A. Thompson #1	330'S 330'E NWc NE NW Sec. 16-7S-8E	3085'	8-15-54
George & Wrather Oil Co	Vogt #1-A	660'N 330'E SWc Sec. 17-7S-8E	2689'	10- 8-54
George & Wrather Oil Co	Morehead #3	330'S 330'W NEc SE SW Sec. 17-7S-8E	2699'	2- 9-54
Calvert Drilling, Inc	F. G. Cochrane #1	330'S 330'W NEc NW NW Sec. 17-7S-8E	3154'	2-16-54
Eastern Petroleum Co	John Phipps #1	330'S 330'E NWc Sec. 17-7S-8E	3035'	9- 2-54
Eastern Petroleum Co	Farmer Heirs #1	330'N 330'W SEc NW SE Sec. 18-7S-8E	2705'	12-29-54
Robert E. Thorpe	Rabe L. Shaw #1	330'S 330'W NEc SW NE Sec. 18-7S-8E	3009'	10-21-54
Thomas S. Doran	Joseph Harper #1	330'N 330'W SEc SW SW Sec. 18-7S-8E	3155'	8-24-54
Q. B. Mitchell	S. V. Bayley "80" #1	330'S 330'W NEc SW NW Sec. 2-7S-9E	3201'	4-28-54
C. E. Brehm	Porter Crebs #2	330'S 330'W NEc NW NE Sec. 2-7S-9E	2661'	2-26-54
Eastern Petroleum Co	Louis Downen #1	330'S 330'E NWc SE SW Sec. 2-7S-9E	3075'	5- 7-54

WELLS PLUGGED IN 1954—Concluded

Operator	Well	Location	Total depth	Date plugged
WHITE COUNTY—Concluded				
George S. Engle	E. L. McGuire #2	330′S 330′E NWc SE SE Sec. 8-7S-9E	3106′	1–12–54
Gulf Refining Co	L. S. Bayley #14	295′S 365′E NWc SW SW Sec. 11-7S-9E	2912′	8–19–54
A. Eron	Otis Bayley #2	330′N 330′W SEc SW NW Sec. 11-7S-9E	3038′	10– 2–54
C. E. Brehm	Earl Questell #1	330′S 330′W NEc SW Sec. 13-7S-9E	2398′	5–27–54
E. F. Moran, Inc	Union Ridge Cemetery Association #1	330′S 330′E NWc SE NW Sec. 15-7S-9E	2822′	12–14–54
George S. Ebble	E. O. Porter #1	330′S 330′W NEc NW NE Sec. 17-7S-9E	2691′	1– 9–54
Paco Petroleum Corp	Bert C. Cutting et al #1	330′S 330′W NEc SW SE NW Sec. 9-7S-10E	2606′	10–28–54
N. V. Duncan	Hines #1	330′N 330′W SEc NW SE Sec. 10-7S-10E	2568′	6–11–54
Arthur J. Slagter, Jr	Mary A. Stewart et al #1	330′BN 330′W SEc NE SW Sec. 18-7S-10E	3034′	2– 3–54
John J. Oslager & F. D. Adams	W. E. Dagley #2	330′N 330′W SEc NE NW Sec. 18-7S-10E	2907′	10–28–54
Sun Drilling Co	Herman #B-1	330′N 330′W SEc NW SE Sec. 4-3N-10E	3128′	12–29–54

WILL COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Ralph H. Edwards	A. Olson #1	330′N 330′E SWc NW SW Sec. 28-35N-9E	4–14–54	150′
Ralph H. Edwards	E. Gaskill #2	330′N 330′W NW SW NE Sec. 29-35N-9E	5–14–54	140′
Ralph H. Edwards	E. McClintock #1	330′N 330′E SWc Sec. 34-35N-9E	8–12–54	165′

WILLIAMSON COUNTY PLUGGING AFFIDAVITS

Name of operator	Name of well and number	Location	Date plugged	Total depth
Calvert Drilling, Inc	Belle Gent #1	330′N 330′W SEc NW SE Sec. 33-8S-4E	11– 2–54	2830′
Calvert Drilling, Inc	J. B. Duty et al #1	330′S 330′W NEc NW Sec. 3-9S-4E	9–25–54	2972′

PRODUCING OIL WELLS
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
BOND COUNTY						
Hoiles Petroleum Co., Inc.	Enloe #1	330′N 990′W SEc NW Sec. 6-4N-2W	Devonian	2407′	100	--------
Leland Monken	Thomason #1	330′S 330′E NWc SE Sec. 18-4N-2W	Benoist	1158′	--------	490′
Miami Operating Co.	R. L. Buchmiller #1	350′N 375′W SEc NE Sec. 36-5N-3W	Devonian	2444′	42	537′
Edgar F. Smith	Dillman #2	330′N 330′W SEc Sec. 16-5N-4W	Pennsylvanian	662′	--------	567′
Clyde Bassett	Alvin File #1	330′N 330′W SEc SW NE Sec. 21-5N-4W	Pennsylvanian	627′	--------	534′
Neary & Cahill	Dauderman-File Comm. #1	330′S 330′W NEc SE NE SE Sec. 21-5N-4W	Pennsylvanian	627′	40	557′
Neary & Cahill	Lillie Miller #1	430′S 330′W NEc NE SE SE Sec. 21-5N-4W	Pennsylvanian	617′	54	552′
Arnold Wilson	Herbert Stone #1	330′N 330′E SWc SE SW Sec. 22-5N-4W	Pennsylvanian	629′	6	--------
Clyde Bassett	J. E. Neathammer #1	330′S 330′E NWc NE Sec. 22-5N-4W	Pennsylvanian	605′	--------	540′
Clyde Bassett	Sam Parker #1	330′N 330′E SWc NW NW Sec. 22-5N-4W	Pennsylvanian	647′	--------	548′
Herbert Weder	Sapp #1	330′N 345′E SWc SE NW Sec. 22-5N-4W	Pennsylvanian	618′	--------	557′
Arnold Wilson	Zobrist-Cordes #1	330′S 330′W NEc NE SW SW Sec. 22-5N-4W	Pennsylvanian	612′	3	--------
Canter Drilling Co.	Wm. Naap #1	330′S 330′E NWc Sec. 27-5N-4W	Pennsylvanian	1585′	9	512′
John F. Dunnill	Alvin M. File #1	330′S 330′W NEc Sec. 28-5N-4W	Pennsylvanian	608′	24	562′
E. E. Jenneman	Greenwood #1	990′N 330′E SWc SE SE Sec. 3-6N-2W	Devonian	2297′	--------	582′
Arthur Larsen	Stoneburner #1	200′S 380′E NWc NE Sec. Frac. 3-6N-2W	Dutch Creek	2275′	133	587′
Magnolia Petroleum Co.	Joel Elam #7	330′S 330′W NEc Frac. NW Sec. 3-6N-2W	Devonian	2283′	230	591′
Clyde Bassett	Durr #4	330′N 330′E SWc NW NE Sec. 10-6N-2W	Pennsylvanian	1014′	4	--------
Neary & Cahill	Homer Finke et al #1	330′N 330′W SEc NW Sec. 16-6N-4W	Dutch Creek	1846′	50	506′
R. H. Troop	Blankenship-Stoneburner Comm. #1	330′N 330′E SWc Sec. 34-7N-2W	Benoist	2268′	300	597′
CHRISTIAN COUNTY						
Arnold Valter	Tom Smith Comm. #1	330′N 330′E SWc SE SE Sec. 8-14N-3W	Silurian	1790′	288	586′
Arnold Valter	Rose Peter Comm. #2	330′N 990′E SWc SE Sec. 8-14N-3W	Silurian Hoeing	1687′	188	544′
Arnold Valter	Carl Denkert #1-"A"	990′S 330′E NWc NW SW Sec. 16-14N-3W	Silurian	1692′	240	547′
Arnold Valter	Carl Denkert #1-C	330′N 375′E SWc NW NW Sec. 16-14N-3W	Silurian	1739′	10	550′
Keystone Oil Co.	Peters #1	330′N 330′E SWc NW NE Sec. 17-14N-3W	Silurian	1681′	90	560′
Keystone Oil Co.	Peters #2	330′S 330′W NEc NW NE Sec. 17-14N-3W	Silurian	1659′	525	--------
Arnold Valter	Rose M. Peter #1	330′N 330′E SWc SW SE NE Sec. 17-14N-3W	Silurian	1734′	3	553′
Arnold Valter	Rose Peter Comm. #3	330′S 330′E NWc NE NE Sec. 17-14N-3W	Silurian	1747′	190	549′
Arnold Valter	Rose Peter Comm. #4	330′N 330′E SWc NE NE Sec. 17-14N-3W	Silurian	1741′	427	548′
Arnold Valter	Simpson Driskell #2	330′N 330′E SWc NE SE Sec. 17-14N-3W	Silurian	1703′	100	568′
Arnold Valter	Driskell #1-B	330′S 330′W NEc SW SE Sec. 17-14N-3W	Silurian	1694′	7	567′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
CHRISTIAN COUNTY—Concluded						
Arnold Valter	S. Driskell #1	330'S 330'W NEc SE Sec. 17-14N-3W	Silurian	1693'	100	549'
Arnold Valter	Simpson Driskell #3	330'N 330'E SWc NW SE Sec. 17-14N-3W	Silurian	1714'	80	569'
Arnold Valter	Gray Herndon #1	330'S 330'W NEc SE NW Sec. 17-14N-3W	Silurian	2285'	17	584'
L. A. McElmurray & Associates	Henninger #1	445'S 135'W NEc SE SW Sec. 29-14N-3W	Silurian	1748'	100	581'
C. B. Earnest	George H. Turner #1	330'N 330'W SEc NE NE Sec. 1-15N-1W	Devonian	1980'	2.44	608'
C. B. Earnest	George A. Turner #2	660'S 330'W NEc SE NE Sec. 1-15N-1W	Trenton	1937'	7	
Don McCumber	Furstenburg #1	330'N 330'W SEc SW NW Sec. 1-15N-1W	Silurian	1897'	12	
Arthur Niemann & Ernest Anderson	McVey #1	330'N 330'W SEc NE SE Sec. 2-15N-1W	Silurian	1918'	100	605'
Aurora Gasoline Co.	A. T. Vail, Trustees #1	330'N 330'W SEc SW SW Sec. 4-15N-1W	Silurian	1939'	200	585'
Aurora Gasoline Co.	A. T. Vail, Trustees #2	330'N 330'W SEc SW Sec. 4-15N-1W	Silurian	1893'	150	604'
Aurora Gasoline Co.	T. R. McMillan et al #1	330'S 330'E NWc SW SE Sec. 4-15N-1W	Silurian	1897'	125	594'
H. F. Robison	Mary Ella Alvey #1	330'N 330'W SEc SW NE Sec. 8-15N-1W	Silurian	1867'	150	605'
M. H. Richardson	Hardy Heirs #1	330'S 330'E NWc NE SE Sec. 8-15N-1W	Silurian	1886'	140	602'
M. H. Richardson	Millie Long #1	330'N 990'E SWc SE NE Sec. 8-15N-1W	Silurian	1886'		604'
Sun Oil Co.	R. O. Augur #1	330'S 330'E NWc SE Sec. 8-15N-1W	Silurian	1938'	175	608'
M. H. Richardson	Millie Long #2	330'N 330'W SEc NE NE Sec. 8-15N-1W	Silurian	1882'		609'
Sun Oil Co.	R. O. Augur #2	330'N 330'W SEc NW SE Sec. 8-15N-1W	Silurian	1887'	152	605'
Richard H. Proctor	Charles W. Watts, Sr. #1	330'S 330'W NEc SW SE Sec. 9-15N-1W	Silurian	1913'	85	
Walter Duncan	Earl Long #1	330'S 330'E NWc SW NW Sec. 9-15N-1W	Silurian	1887'	75	604'
Richard H. Proctor	Charles Watts #2	330'S 330'W NEc SE SE Sec. 9-15N-1W	Silurian Dolomite	1892'	15	
Don McCumber	Watts #2	330'S 330'W NEc SW NE SE Sec. 9-15N-1W	Silurian	1899'	40	603'
Don McCumber	Earl Long #2	330'S 330'E NWc SE NW NW Sec. 9-15N-1W	Silurian	1883'	150	
M. H. Richardson	Earl Long #1-A	330'S 990'W NEc NW Sec. 9-15N-1W	Silurian	1890'		594'
Don McCumber	Earl Long #1	330'S 330'E NWc Sec. 9-15N-1W	Silurian	1887'	150	
Edward Gallagher	C. R. Osbern #1-A	290'S 330'E NWc SW NE Sec. 10-15N-1W	Silurian	1883'	61	598.2'
Edward Gallagher	C. R. Osbern #1-B	330'S 330'E NWc NE Sec. 11-15N-1W	Silurian	1902'	20	607.7'
Vernon D. Jarvis	Lucy Ann Fulk et al #1	330'S 330'W NEc NW Sec. 15-15N-1W	Devonian	1925'	18	612'
H. F. Robison	C. Ray Herman #1	330'S 330'W NEc SW NW Sec. 15-15N-1W	Silurian	1899'	80	
M. H. Richardson	R. E. Butcher #1	330'S 330'E NWc SW Sec. 16-15N-1W	Silurian	1990'		606'
Breuer-Robison Oil Co.	Long "C" Lease #1	330'S 330'E NWc SW NW Sec. 17-15N-1W	Silurian Dolomite	1905'	240	596'
Breuer-Robison Oil Co.	Long "C" Lease #2	330'N 990'E SWc NW Sec. 17-15N-1W	Silurian	1920'	60	60'
M. H. Richardson	Ida Coles #1	330'N 330'W SEc NE NW Sec. 17-15N-1W	Silurian	1919'		601'
M. H. Richardson	Ida Coles #2	330'N 330'W SEc NW NW Sec. 17-15N-1W	Silurian	1895'		603'
M. H. Richardson	Alta Montgomery #1	330'N 330'W SEc NW NE Sec. 17-15N-1W	Silurian	1905'		602'
M. H. Richardson	Frank Long "B" #3	330'S 330'E NWc SE SE Sec. 17-15N-1W	Silurian	1916'	56	607'
Richard S. Proctor	Frank Long "C" #1	330'S 330'E NWc SE NE Sec. 17-15N-1W	Silurian	1902'		607'
M. H. Richardson	Roy Butcher "B" #1	330'S 990'W NEc SW NE Sec. 17-15N-1W	Silurian	1920'		608'
Carter Oil Co.	R. O. Augur #1	330'S 330'E NWc NE SW Sec. 17-15N-1W	Silurian	1916'	23	600'

M. H. Richardson	Frank Long B-2	990'S 990'E NWc NE SE Sec. 17-15N-1W	Silurian	1916'	56	607'
Calvert Drilling, Inc	D. V. Beard et al #2	1320'S 330'W NEc SE Sec. 18-15N-1W	Silurian	1910'	20	603'
H. F. Robison	Ola Herman #1	330'N 330'W SEc NE Sec. 18-15N-1W	Silurian	1893'	200	--------
H. F. Robison	G. E. Montgomery et al #1	330'S 330'W NEc SW SW Sec. 18-15N-1W	Devonian	1898'	100	--------
M. H. Richardson	Chas. T. Montgomery #2	1429'N 1367'E SWc SW Sec. 18-15N-1W	Trenton	1916'	480	605'
Shulman Bros	John Beard Estate #1	330'S 330'W NEc SE Sec. 18-15N-1W	Devonian	1899'	65	604'
Calvert Drilling, Inc	D. V. Beard et al #1	1320'S 330'E NWc SE Sec. 18-15N-1W	Silurian	1914'	--------	610'
Carter Oil Co	A. L. Augur #1	330'N 330'W SEc NE NE Sec. 18-15N-1W	Silurian	1917'	304	599'
M. H. Richardson	Augur Heirs #2	548'S 330'W NEc SW Sec. 18-15N-1W	Silurian	1908'	10	602'
Sun Oil Co	Frank B. Mulberry #1	271'S 1028'E NWc Sec. 19-15N-1W	Silurian	1980'	90	609'
Shulman Bros	Shepherd #1	330'S 330'E NWc SE Sec. 19-15N-1W	Silurian	1970'	100	609'
Paul Van Wagner	Buther #1	330'S 330'E NWc SE NE Sec. 21-15N-1W	Silurian	1938'	40	--------
Gilbert H. Large	Bailey #1	330'S 330'E NWc SW SW Sec. 13-15N-2W	Silurian	1911'	100	--------
H. F. Robison	J. A. Augur #1	330'S 330'W NEc SW SE Sec. 13-15N-2W	Silurian	1903'	24	--------
Lowell G. Ewart	Albert Conel Est. #1	330'S 330'W NEc NW SW Sec. 13-15N-2W	Silurian	1902'	120	--------
Sun Oil Co	Janice H. Vincent #1	330'S 330'E NWc NE SW Sec. 13-15N-2W	Silurian	1986'	84	608'
H. F. Robison	Anna Marshall #1	330'N 330'E SWc NE Sec. 13-15N-2W	Silurian	1898'	100	--------
Louis Marsch	Hattie Ryan #1	330'N 330'E SWc SE SW NW Sec. 13-15N-2W	Silurian	1892'	15	608'
Ohio Oil Co	E. M. Long et al #1	330'N 330'E SWc NE Sec. 19-15N-1W	Silurian Dolomite	1955'	115	608'
Paul Van Wagner	G. G. Shepherd #1	330'S 330'E NWc NE SE Sec. 19-15N-1W	Silurian	1939'	50	--------
Gene W. Boley	Marshall #1	330'N 330'W SEc NW Sec. 13-15N-2W	Silurian	1900'	--------	614'
Joe Miloncus	Ruby Davidson #1	330'S 330'W NEc NW SE Sec. 13-15N-2W	Silurian	1900'	50	--------
M. H. Richardson	Alice Augur #3	330'N 330'W SEc Sec. 14-15N-2W	Silurian	1918'	--------	610'
Sun Oil Co	Hattie Ryan Well #1	330'S 330'E NWc NW SW NE Sec. 23-15N-2W	Silurian	1910'	55	605'
Don McCumber	Lowe #1	330'N 330'W SEc NE NW Sec. 23-15N-2W	Silurian	1915'	85	--------
Sun Oil Co	C. A. Scholes #1	330'S 330'E NWc NE NE Sec. 23-15N-2W	Silurian	1980'	52	614'
Sun Oil Co	Marguerite Igo #1	330'N 330'W SEc SW SW Sec. 23-15N-2W	Silurian	2020'	5	607'
The Ohio Oil Co	Harmon Forden #1	330'S 330'W NEc SE SE Sec. 24-15N-2W	Silurian Dolomite	1974'	32	605'
The Ohio Oil Co	J. G. Long #1	330'N 330'E SWc NW NE Sec. 24-15N-2W	Silurian Dolomite	1961'	23	607'
The Ohio Oil Co	C. Zeller #1	330'S 330'W NEc Sec. 24-15N-2W	Silurian	1974'	150	609'
H. F. Robison	Augur #1	330'S 330'E NWc NW SW NW Sec. 24-15N-2W	Benoist	1270'	100	--------
CLARK COUNTY						
J. E. Woofter Drilling Co	Vern Davison #2	330'N 330'W SEc SW Sec. 13-9N-13W	Casey	868'	20	587'
J. E. Woofter Drilling Co	Vern Davison #3	330'S 330'W NEc SE SW Sec. 13-9N-13W	Casey	878'	18	878'
Froderman and Connelly	Hardway #2	215'S 250'E NWc SW Sec. 18-9N-13W	Upper Partlow	505'	1	533'
J. E. Woofter Drilling Co	Vern Davison #1	660'N 660'W SEc SW Sec. 13-9N-13W	Casey	857'	20	--------
Davis Lambert	John Van Fleet #1	330'S 330'W NEc NW Sec. 24-9N-13W	Robinson	853'	5	588'
C. L. McMahon, Inc	H. M. Grant #1	660'N 330'W SEc SW SW Sec. 2-9N-14W	Casey	552'	--------	599'
Tide Water Associated Petroleum Co	M. Winters #18	248'S 327'W NEc SW Sec. 2-9N-14W	Casey	426'	1	543'
Froderman & Connelly	Hubert Bennett #1	260'S 275'E NWc NE SE SE Sec. 13-9N-14W	Casey	564'	15	580'
Froderman & Connelly	Hubert Bennett #P-2	654'S 278'E NWc NE SE SE Sec. 13-9N-14W	Casey	570'	1	--------
Froderman & Connelly	R. Bennet #0-3	218'N 262'W SEc NE SE Sec. 13-9N-14W	Casey	564'	20	580'
Pure Oil Co	J. P. Bennett #32	660'N 220'E SWc SE SW Sec. 23-9N-14W	Casey	505'	--------	533'
Pure Oil Co	J. P. Bennett #33	670'N 230'W SEc SW Sec. 23-9N-14W	Upper Partlow	518'	--------	539'
Pure Oil Co	J. P. Bennett #34	205'S 230'W NEc SE SW Sec. 23-9N-14W	Upper Partlow	553'	--------	553'
Pure Oil Co	J. P. Bennett #35	1110'N 670'E SWc SE SW Sec. 23-9N-14W	Upper Partlow	513'	--------	552'
Pure Oil Co	J. P. Bennett #45	220'S 220'E NWc SE SW Sec. 23-9N-14W	Upper Partlow	498'	--------	539'
Pure Oil Co	J. P. Bennett #26	NWc SE SE SW Sec. 23-9N-14W	Partlow	500'	--------	533'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
Pure Oil Co	T. H. Bennett A-#3	330′S 330′W NEc NW Sec. 26-9N-14W	Partlow	528′		578′
Pure Oil Co	Misner Cons. #17	270′S 650′W NEc SE NW Sec. 26-9N-14W	Partlow	524′		524′
Pure Oil Co	Misner Cons. #18	670′S 665′E NWc SE NW Sec. 26-9N-14W	Partlow	530′		531′
Pure Oil Co	Misner Cons. #19	280′N 670′E SWc SE NW Sec. 26-9N-14W	Partlow	548′		548′
Pure Oil Co	Misner Cons. #20	660′S 205′W NEc SE NW Sec. 26-9N-14W	Partlow	546′		546′
Ralph H. Edwards	O. Finney #1	1650′N 330′E SWc SE SE Sec. 32-9N-14W	Casey	700′		571′
Ralph H. Edwards	M. Kimlin #1	330′S 660′W NEc SW SE Sec. 32-9N-14W	Casey	577′		570′
Mar Tex Oil Co	Collier #1	330′S 330′W NEc NW SE Sec. 18-10N-13W	Pennsylvanian	556′	5	
Forest Oil Corp	Ed Whitehead G-10 Casey Pool	310′S 290′E NWc NE SW Sec. 14-10N-14W	Casey	489′		621′
Forest Oil Corp	Leroy Hartman Heirs #A-11	330′S 220′E NWc SW NE SE Sec. 15-10N-14W	Casey	601′		624′
Forest Oil Corp	Wm. Deahl Z-6 Casey Pool	190′N 140′W SEc NW NE Sec. 15-10N-14W	Casey	565′		624′
Forest Oil Corp	Leroy Hartman Heirs #B-11	330′S 1′E NWc SE NE SE Sec. 15-10N-14W	Casey	568′		625′
Forest Oil Corp	Margaret Keeler #A-15	330′S 220′E NWc SW SE SE Sec. 15-10N-14W	Casey	537′		622′
Forest Oil Corp	Margaret Keeler #B-15	330′S 1′W NEc SW SE SE Sec. 15-10N-14W	Casey	579′		621′
Forest Oil Corp	Margaret Keeler #C-15	330′S 220′W NEc SE SE SE Sec. 15-10N-14W	Casey	554′		621′
Alexander Peters, Jr	Fain #1	330′S 330′W NEc SE SW Sec. 25-10N-14W	Carper	1391′	15	461′
Arthur H. Anderson & John C. Sutton (Trustees)	Brown #3	330′S 330′W NEc SW NE Sec. 26-10N-14W	Casey	476′	2	
States Oil Co	Sharp #1	330′S 330′E NWc NE Sec. 26-10N-14W	Casey	458′		
States Oil Co	Sharp #2	330′N 330′W SEc NW NE Sec. 26-10N-14W	Casey	440′	¼	
States Oil Co	Tuttle #1	330′N 330′E SWc NW NE Sec. 26-10N-14W	Casey	440′	½	
States Oil Co	Hilliard & Tuttle #1	330′S 200′W NEc SE NW Sec. 26-10N-14W	Casey	488′		
Steger Producing & Mfg. Co	G. L. Kite #5	255′S 220′E NWc SE Sec. 26-10N-14W	Casey	462′	2	
H. J. Blazer	L. T. Straton #2	660′N 220′E SWc NE NW Sec. 35-10N-14W	Casey	540′	2	
A. R. Frank	Mathes #1-A	330′S 360′W NEc SE NW Sec. 1-11N-14W	Pennsylvanian	472′	1	
Erwin Fiesler	Phillips #2	560′S 330′W NEc SE SE Sec. 7-11N-14W	Carper	1200′	10	
R. D. Donnelly	E. P. Daily #1	330′N 330′E SWc NE SE Sec. 8-11N-14W	Mississippian	336′		
Partlow & Cochonour	H. E. Spelbring #1-C	330′S 330′E NWc SE NW Sec. 8-11N-14W	Carper	978′	2	
Morris H. C. Johnson, Jr	Hammond #1	560′S 330′E NWc NE Sec. 10-11N-14W	Pennsylvanian	490′		
CLAY COUNTY						
Alva C. Davis	Louis B. Daly A-1	330′N 330′E SWc NE SE Sec. 1-2N-7E	Rosiclare	3140′	25	466′
National Associated Petroleum Co	James A. Broyles #1	330′S 660′W NEc SE Sec. 14-2N-7E	Aux Vases	3032′	62	453′
Gulf Refining Co	South Stanford Unit Tract D-5	330′N 330′W SEc NW NW Sec. 16-2N-7E	Aux Vases	2967′	30	427′
National Associated Petroleum Co	Roger Pettijohn #1	330′S 330′E NWc SE SE Sec. 16-2N-7E	Aux Vases	3129′	20	439′
Pure Oil Co	F. Holman D-1	330′N 330′E SWc SW NE Sec. 11-2N-8E	Rosiclare	3005′	19	413′
Don Baines	Hough #1	330′S 330′E NWc SE SE Sec. 11-2N-8E	Rosiclare	3070′	35	412′
Perry Fulk	O. E. Carter #1	330′N 330′E SWc NE Sec. 13-2N-8E	Rosiclare	3079′	50	
Jas. N. Hockman	J. Earl Moseley #1	330′N 330′W SEc SW SW Sec. 16-2N-8E	Cypress	2635′	24	446′
James G. Brown	L. E. Hosselton #3	330′N 330′W SEc SW SW Sec. 17-2N-8E	Cypress	3034′	120	451′

James G. Brown	L. E. Hosselton #4	330'S 330'E NWc SW SW Sec. 17-2N-8E	Cypress Aux Vases	2985'	120	457'
Partlow & Cochonour	Henry R. Bissey #1	330'S 330'E NWc NE NW Sec. 17-2N-8E	Aux Vases	3108'	60	460'
Partlow & Cochonour	E. Henderson #1	330'N 330'E SWc NW Sec. 17-2N-8E	Aux Vases	3034'	157	449'
Partlow & Cochonour	Laura Skelton #2	330'N 330'E SWc NW SW Sec. 17-2N-8E	Aux Vases	3032'	250	455'
Pure Oil Co	L. E. Hosselton A-No. 3	330'N 330'E SWc SE SW Sec. 17-2N-8E	McClosky	3076'	86	451'
Pure Oil Co	G. H. Bissey A-#3	330'N 334'W SEc NE Sec. 18-2N-8E	McClosky	3048'	42	443'
Pure Oil Co	W. S. Hosselton #3	330'N 330'W SEc NE SE Sec. 18-2N-8E	Cypress	2696'	21	453'
Pure Oil Co	Alpha A. Rogers #2	675'N 992'E SWc SE Sec. 18-2N-8E	Aux Vases	2980'	172	455'
Pure Oil Co	Alpha A. Rogers #4	330'S 330'W NEc SE SE Sec. 18-2N-8E	Aux Vases	2955'	51	456'
Dr. Irl J. Neal	Glen Zimmerman #1	330'S 330'E NWc SW NW Sec. 29-2N-8E	Aux Vases	2957'	90	440'
Milton Smith	Wortham et al #1	330'S 330'W NEc SE NE Sec. 14-3N-6E	Aux Vases	2922'		
C. G. Hardin	Paul Franklin #1	330'S 330'W NEc NW NW Sec. 2-3N-7E	Aux Vases	2891'	55	433'
McKelvy & Sipoha	J. C. Franklin #3	330'N 330'E SWc NW NW Sec. 2-3N-7E	Aux Vases	2890'	100	433'
C. G. Hardin	J. O. Tolliver #1	330'N 330'E SWc SE NW Sec. 2-3N-7E	Rosiclare	2973'	110	432'
W. C. McBride, Inc	Phillips #4	330'S 330'E NWc SW NW Sec. 2-3N-7E	Aux Vases	2970'	90	433'
W. C. McBride, Inc	Thompson #2	330'S 330'E NWc SW SW Sec. 2-3N-7E	Aux Vases	2964'	25	434'
W. C. McBride	A. O. Clark #4	330'N 330'E SEc SE NE Sec. 3-3N-7E	Aux Vases	2937'	110	433'
C. G. Hardin	Frank Gailteux #1	330'S 330'W NEc SW SE Sec. 3-3N-7E	Cypress Aux Vases	2968'	117	435'
W. C. McBride, Inc	A. O. Clark #5	330'S 330'E NWc NE NE Sec. 3-3N-7E	Cypress	2937'	160	433'
W. C. McBride, Inc	E. Hagen #1	330'N 330'W SEc SW NE Sec. 3-3N-7E	Aux Vases	2947'	40	433'
W. C. McBride, Inc	A. O. Clark #1	330'N 330'W SEc NE NE Sec. 3-3N-7E	Aux Vases	2900'	52	433'
C. G. Hardin	Hope Dickey #1	330'S 330'W NEc NW NE Sec. 3-3N-7E	Cypress	2964'	75	434'
W. C. McBride, Inc	A. H. Neely #3	330'S 330'E NWc NE SE Sec. 3-3N-7E	Aux Vases McClosky	2943'	140	433'
W. C. McBride, Inc	A. H. Neely #4	330'S 330'E NWc SE SE Sec. 3-3N-7E	Cypress Aux Vases	2857'	100	436'
W. C. McBride, Inc	Willis Dehart #9	330'S 330'W NEc SW Sec. 10-3N-7E	Cypress	2952'	120	430'
Sanders-Fye Drilling Co	Berlin #2	330'N 330'W SEc NW Sec. 10-3N-7E	Aux Vases	2942'	9	429'
Sanders-Fye Drilling Co	Franklin-Cailteux #1	990'N 330'E SWc SE SE Sec. 10-3N-7E	Benoist	2953'	20	429'
Walter Duncan	Colclasure #1	330'S 330'W NEc SE NE Sec. 10-3N-7E	Aux Vases	2890'	39	433'
Sanders-Fye Drilling Co	Tipton #1	330'S 330'E NWc SE Sec. 10-3N-7E	Cypress	2951'	150	429'
Breuer-Robison Oil Co	Cailteux #1	330'N 330'W SEc NW Sec. 12-3N-7E	Cypress Rosiclare	2983'	200	430'
Kingwood Oil Co	J. W. Duff #4	330'N 330'W SEc SW NW Sec. 12-3N-7E	Cypress Rosiclare	3006'	156	433'
Breuer-Robison Oil Co	V. A. Medley #1	330'N 330'E SWc SE NW Sec. 12-3N-7E	Aux Vases	2019'	150	429'
Kingwood Oil Co	J. W. Duff #5	330'N 330'E SWc NE Sec. 12-3N-7E	Cypress	2632'	38	433'
Acme Casing Pulling Co	Frank Gailteux #1	330'N 330'W SEc NE SE Sec. 15-3N-7E	Rosiclare	3001'	100	465'
Howard L. Ritter	R. L. Smith et al #1	330'S 330'W NEc SE SW Sec. 21-3N-7E	McClosky	3014'	5	455'
Magnolia Petroleum Co	Poppen-Schofield Unit #1	330'S 330'E NWc NE NE Sec. 22-3N-7E	Rosiclare	2990'	23	459'
National Associated Petroleum Co	David B. Davis #3	330'N 1815'E SWc NW NW Sec. 22-3N-7E	Cypress	2976'	27	461'
Breuer-Robison Oil Co	Hunley-Kenley Comm. #1	330'N 330'W SEc SW SE Sec. 8-3N-8E	Cypress McClosky	2660'	235	420'
Breuer-Robison Oil Co	Sullivan #4	330'S 330'W NEc SE SE Sec. 8-3N-8E	Cypress	2660'	60	420'
Breuer-Robison Oil Co	Hunley-Kenley #2	330'S 330'W NEc SW SE Sec. 8-3N-8E	Cypress	2659'	117	421'
Breuer-Robison Oil Co	Hunley-Kenley Comm. #3	330'N 330'E SWc SE Sec. 8-3N-8E	McClosky	3036'	60	421'
Breuer-Robison Oil Co	Sullivan #2	330'S 330'E NWc SE SE Sec. 8-3N-8E	Cypress	3054'	115	419'
Breuer-Robison Oil Co	Sullivan #3	330'N 330'W SEc Sec. 8-3N-8E	Cypress	3050'	285	420'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
CLAY COUNTY—Concluded						
Calvert Drilling, Inc	Thomas Bemis, Jr. #B-7	330'N 330'E SWc Sec. 9-3N-8E	Cypress	2665'	71	422'
Calvert Drilling, Inc	Thomas Bemis, Jr. #B-8	990'N 330'E SWc Sec. 9-3N-8E	Cypress	2656'	130	420'
Cullum & Lawhead	Bemis #1	330'S 990'E NWc Sec. 14-3N-8E	Aux Vases	3051'	140	418'
Cullum & Lawhead	Bemis #2	330'N 330'W SEc NE SE Sec. 15-3N-8E	Aux Vases	3067'	103	414'
Pure Oil Co	E. V. Chaffin-D #1	330'S 330'W NEc SE SE Sec. 15-3N-8E	Aux Vases	2986'	161	417'
Breuer-Robison Oil Co	Manker #1	330'S 330'E NWc Sec. 16-3N-8E	Cypress	2710'	190	417'
Breuer-Robison Oil Co	Braden #2	990'S 990'W NEc Sec. 17-3N-8E	McClosky Aux Vases	3043'	10	422'
Breuer-Robison Oil Co	Braden #3	330'S 330'W NEc Sec. 17-3N-8E	Cypress	2657'	300	419'
Breuer-Robison Oil Co	Braden #4	330'S 330'E NWc NE NE Sec. 17-3N-8E	Cypress	2661'	280	420'
Partlow & Cochonour	Lucy Pennypacker #1	330'S 330'W NEc SE Sec. 18-3N-8E	Aux Vases	3034'	128	
John W. Rudy	Bissey Addition #1	990'N 330'W SEc Sec. 19-3N-8E	Benoist	3038'	30	459'
John W. Rudy	Easley #1	1035'S 330'W NEc SE Sec. 19-3N-8E	Benoist	3054'	215	456'
John W. Rudy	Travis #1	330'N 330'W SEc Sec. 19-3N-8E	Cypress	3055'	50	475'
Perry Fulk	Duff #1	330'S 330'E NWc SE Sec. 20-3N-8E	Rosiclare	3100'	25	
Skiles Oil Corp	Blessing #1	330'S 330'E NWc NE NW Sec. 22-3N-8E	Aux Vases Rosiclare	3071'	120	416'
Snyder Drilling & Well Servicing Co	Hannah Brissenden #1	330'S 330'W NEc NW NW Sec. 22-3N-8E	Aux Vases	3090'	105	418'
Calvert Drilling, Inc	Mayo #1	330'N 990'E SWc NW Sec. 28-3N-8E	Aux Vases	3018'	41	443'
John W. Rudy	Wilson-Moseley Comm. #1	990'N 330'W SEc NW Sec. 32-3N-8E	Aux Vases	2950'	60	459'
J. M. Hall	Calvin B. McKnight #1	330'N 330'W SEc NW NE Sec. 14-4N-7E	Cypress	2610'	40	
Chester O. Ray	D. D. Murphy #1	330'N 330'W SEc NW Sec. 16-4N-7E	Aux Vases	3008'		473'
Griffin & Walker Association	James Cogswell #1	330'N 330'W SEc NW NW Sec. 22-4N-7E	Aux Vases	2997'	15	467'
Griffin & Walker Association	James Cogswell #1	330'N 330'W SEc NW NW Sec. 22-4N-7E	McClosky	2997'	10	
Walter Duncan	Hiser #1	330'S 330'W NEc NW SE Sec. 23-4N-7E	Cypress	2612'		455'
Sanders-Fye Drilling Co	McKnight #1	330'N 330'E SWc NW SW Sec. 23-4N-7E	Cypress	2630'	25	463'
J. L. Black Oil Producers, Inc	Dillman Estate #1	330'N 330'E SWc NW SW Sec. 25-4N-7E	Rosiclare	2972'	30	454'
Gulf Refining Co	Mary I. Tolliver #3	330'S 330'E NWc NE NE Sec. 26-4N-7E	Upper Cypress	2615'	87	455'
W. C. McBride, Inc	Ray Palmer #5	330'S 330'W NEc SE SE Sec. 34-4N-7E	Cypress Aux Vases	2945'	150	432'
W. C. McBride, Inc	Palmer #3	330'N 330'W SEc Sec. 34-4N-7E	Aux Vases	2835'	100	434'
McKelvy & Sipoha	James Franklin et al #1	330'N 330'W SEc SW SW Sec. 35-4N-7E	Benoist	2972'	15	432'
Pure Oil Co	Zoa Moseley #3	330'N 330'E SWc NW NE Sec. 32-3N-8E	Aux Vases	2967'	160	457'
Pure Oil Co	Moseley Cons. B-1	330'N 330'E SWc NE Sec. 32-3N-8E	Aux Vases	3066'	170	458'
Pure Oil Co	Moseley Cons. B-2	330'S 330'E NWc SW NE Sec. 32-3N-8E	Aux Vases	2950'	236	
Sanders-Fye Drilling Co	Griffy-Leonard Comm. #1	330'N 330'W SEc Sec. 4-4N-7E	Cypress	2958'	42	482'
Coy Oil, Inc	Arthur W. Phillips et al Comm. #1	330'S 330'W NEc Sec. 11-4N-7E	Cypress	3001'	25	475'

Gaurd S. Marvin	Conley Heirs #3	418.4'N 241.6'E SWc NW NW Sec. 13-4N-7E	Cypress	2615'	60	471'
Gaurd S. Marvin	Conley Heirs #1-B	330'S 330'E NWc SW NW Sec. 13-4N-7E	Cypress	2625'	20	471'
Rolla A. Conley	Conley #3	418.4'N 241.6'W SEc NE NE Sec. 14-4N-7E	Cypress	2613'	20	
C. G. Hardin	Palmer #2	330'S 330'E NWc NW SW SW Sec. 35-4N-7E	Aux Vases	2886'	100	434'
Don Slape Drilling Co	West #4	330'N 330'W SEc SW NE Sec. 22-4N-8E	McClosky	3060'	100	454'
Don Slape Drilling Co	Frank West #5	330'N 330'E SWc SE NE Sec. 22-4N-8E	McClosky	3065'	20	452'
Don Slape Drilling Co	West et al #1	330'N 330'E SWc NW SE Sec. 22-4N-8E	McClosky	3019'	35	452'
Don Slape Drilling Co	West et al #1-A	330'S 660'W NEc NW SE Sec. 22-4N-8E	McClosky	3046'	100	454'
Don Slape Drilling Co	Frank West #6	330'S 330'E NWc SE NE Sec. 22-4N-8E	McClosky	3052'	20	456'
Texas Co	W. M. Prather #1	330'N 330'W SEc NE Sec. 10-5N-5E	Aux Vases	2433'	32	533'
Texas Co	J. Rose NCT-1 #2	330'S 330'W NEc SE NE Sec. 10-5N-5E	McClosky Aux Vases	3527'	58	518'
John R. Blythe, Inc	E. L. Barr #3	330'S 310'E NWc NW SW Sec. 11-5N-5E	Aux Vases	2429'	25	527'
The Texas Co	Fender-Danks Unit #1	330'S 330'E NWc SE NW Sec. 11-5N-5E	Aux Vases	2419'	92	525'
The Texas Co	C. Prather #8	330'N 330'W SEc SW NW Sec. 11-5N-5E	Aux Vases	2383'	81	507'
R. I. Thompson	Glen Limes #1	330'S 330'E NWc NE SW Sec. 11-5N-5E	Aux Vases	2446'	200	515'
Thomas S. Doran	Hamilton #1	330'N 330'E SWc SE Sec. 32-5N-5E	Benoist	2590'	22	540'
Coy Oil, Inc	Victor J. Habbe #1	330'S 330'E NWc SE Sec. 1-5N-6E	Aux Vases	2718'	15	528'
Coy Oil, Inc	Howard J. Heiden et al #1	330'S 330'W NEc NE SE Sec. 1-5N-6E	Aux Vases	2711'	50	528'
Coy Oil, Inc	H. W. Heitman et al #3	330'N 330'E SWc NE Sec. 1-5N-6E	Aux Vases	2878'	45	
Coy Oil, Inc	H. W. Heitman et al #4	330'N 990'E SWc NE Sec. 1-5N-6E	Aux Vases	2714'	100	532'
Coy Oil, Inc	H. W. Heitman et al #5	330'N 990'W SEc NE Sec. 1-5N-6E	Aux Vases	2909'	75	350'
Coy Oil, Inc	Traub-Schmohe #1	330'N 330'W SEc NW Sec. 1-5N-6E	Aux Vases	2724'	15	529'
Theodore R. Lindsay	Schrodl Unit #1	330'N 330'W SEc SW Sec. 14-5N-6E	Rosiclare	2788'	37	503'
Calvert Drilling, Inc	McGee Comm. #1	330'S 330'E NWc NE Sec. 23-5N-6E	McClosky	2900'	65.30	511'
Denzil Webster	Roberts-Stanfield Comm. #1	330'N 330'W SEc NE SW Sec. 35-5N-6E	Rosiclare	2790'	20	465'
J. L. Black Oil Producers, Inc	Gertrude Greenlaw #1	330'N 330'E SWc NE Sec. 3-5N-7E	Rosiclare	2867'	2	536'
Coy Oil, Inc	Lester Stortzum et al #1	330'S 330'E NWc SW Frac. ¼ Sec. 6-5N-7E	Aux Vases	2716'	25	528'
Walter Duncan	Ira E. Carter #2	330'S 330'E NWc SE SE Sec. 13-5N-7E	Cypress	1650'	24	514'
Kingwood Oil Co	Carter-Birch Unit #1	330'S 330'E NWc NE SE Sec. 13-5N-7E	Cypress	2567'	85	515'
Kingwood Oil Co	Carter-Birch Unit #2	330'N 330'E SWc NE SE Sec. 13-5N-7E	Cypress	2567'	19	515'
Kingwood Oil Co	R. Carter #1	330'S 330'W NEc NW SE Sec. 13-5N-7E	Cypress	2560'	25	515'
Kingwood Oil Co	Keller Stanfield #1	330'N 330'E SWc SE NE Sec. 13-5N-7E	Cypress	2570'	103	516'
Kingwood Oil Co	Keller Stanfield #2	330'S 330'E NWc SE NE Sec. 13-5N-7E	Cypress	2582'	22	519'
McCollum & Kincaid	Glenn Lewis #1	330'S 330'W NEc SW SE Sec. 15-5N-7E	Cypress	2532'	98	515'
Kincaid & McCollum	G. I. Lewis #1	330'S 660'W NEc SE SE Sec. 15-5N-7E	Cypress	2904'	90	514'
Ben Johnson	Keller Stanfield Comm. #1	421'N 335'W SEc NW SE Sec. 17-5N-7E	Rosiclare	2811'	30	527½'
Shulman Bros	Fred Berthold #1	990'N 330'E SWc NE Sec. 18-5N-7E	Cypress	2792'	15	571'
James F. McCollum	J. E. Esson #1	330'N 330'W SEc NE SW Sec. 20-5N-7E	Aux Vases	2800'	15	515'
Jas. N. Hockman	Fehrenbacher #1	330'S 330'E NWc Sec. 36-5N-7E	Cypress	2591'	31	490'
Murvin & Steber	Mary Crouse #1	330'N 330'W SEc NW SW Sec. 36-5N-7E	Cypress	2823'	50	488'
Murvin & Steber	M. H. Plater #1	668'S 329'E NWc SW Sec. 36-5N-7E	Cypress	3038'	80	488'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
CLINTON COUNTY						
Gulf Refining Co.	Fred Rose #1	330'N 330'W SEc Sec. 33-1N-5W	Devonian	2061'	221	402'
Gulf Refining Co.	Fred Rose #2	330'S 660'W NEc SE SE Sec. 33-1N-5W	Devonian	2110'	440	401'
Jet Oil Co.	Joseph H. Kalmer #1	330'N 330'W SEc SW SE Sec. 33-1N-5W	Silurian	2055'	10	429'
T. M. Conrey	Redeker #3	330'N 330'W SEc NW NW Sec. 27-2N-1W	Cypress	1300'	--------	474'
Shulman Bros	DuComb #2	330'N 1650'W SEc Frac. NW Sec. 6-1N-2W	Cypress	1088'	10	447'
Shulman Bros	DuComb #3	990'N 1650'W SEc Frac. NW Sec. 6-1N-2W	Cypress	1095'	8	447'
Shulman Bros	DuComb #4	990'N 2310'W SEc Frac. NW Sec. 6-1N-2W	Cypress	1259'	3	444'
Shulman Bros	Kaiser #2	330'S 990'W NEc Frac. SW Sec. 6-1N-2W	Cypress	1093'	100	446'
Shulman Bros	Kaiser #3	330'N 990'W SEc NE Frac. SW Sec. 6-1N-2W	Cypress	1083'	3	438'
Shulman Bros	Kaiser #4	330'S 1650'W NEc Frac. SW Sec. 6-1N-2W	Cypress	1094'	3	446'
Texas Co.	Linda Nolte Unit #1	330'S 330'E NWc Sec. 1-2N-2W	Devonian	2668'	147	435'
Al Schiermann & W. L. Imming	Park Comm. #1	360'S 330'E NWc Sec. 31-2N-2W	Cypress Devonian	2600'	30	419'
E. J. Goldschmidt	Kesterson #1	330'S 330'W NEc NW NE SW Sec. 8-3N-2W	Devonian	2559'	--------	465'
E. J. Goldschmidt	Wohlwend #6	330'S 600'E NWc NE Sec. 17-3N-2W	Benoist	1188'	18	--------
Texas Co.	P. Gray Comm. #14	330'N 416'W SEc NW SE Sec. 35-3N-2W	Devonian	2637'	22	432'
The Texas Co.	Price Gray Comm. #13	330'N 330'W SEc NE SE Sec. 35-3N-2W	Devonian	2648'	166	430'
Charles K. Stein	Louis Stein Estate #1	330'S 330'E NWc SW SW Sec. 36-3N-2W	Silurian	2634'	2000	--------
Texas Co.	George Colley #1	330'N 330'E SWc NE SW Sec. 36-3N-2W	Devonian	2667'	224	456'
Texas Co.	C. Murphy NCT-2 #1	330'N 330'E SWc NW SW Sec. 36-3N-2W	Devonian	2657'	214	433'
Texas Co.	H. Speiser #2	330'N 330'E SWc SE SW Sec. 36-3N-2W	Devonian	2667'	348	441'
T. R. Kerwin	Maddux #7	150'N 280'E SWc SE NW SW Sec. 4-1N-3W	Cypress	1013½'	15	440'
Robben Oil Co.	Robben Unit Water Flood #01	380'S 330'E NWc SW SE Sec. 5-1N-3W	Cypress	1013'	15	440'
Walter Duncan	Brinkman #2	330'N 330'W SEc SW SW Sec. 24-1N-3W	Silurian	2660'	104	447'
Jet Oil Co.	Brinkman #5	660'N 330'W SEc SE SW Sec. 24-1N-3W	Silurian	2750'	875	448'
Jet Oil Co.	Richard F. Brinkman #1	330'N 330'E SWc SE SW Sec. 24-1N-3W	Silurian	2608'	480	451'
Jet Oil Co.	Weihn #1	330'N 330'W SEc NE SW Sec. 24-1N-3W	Silurian	2500'	85	437'
Jet Oil Co.	Brinkman #4	330'S 330'E NWc NE NW Sec. 25-1N-3W	Silurian	2597'	48	451'
Jet Oil Co.	Richard F. Brinkman #2	330'S 330'W NEc NW Sec. 25-1N-3W	Silurian	2619'	27	461'
Q. B. Mitchell	Brinkman Heirs #2	330'S 330'W NEc NW NW Sec. 25-1N-3W	Silurian	2606'	185	451'
Thomas S. Doran	Dorries #2	330'S 330'W NEc SW NE Sec. 6-2N-3W	Silurian	2270'	30	546'
Thomas S. Doran	Emma Meyer #1	330'S 330'E NWc SE Sec. 6-2N-3W	Silurian	2270'	120	455'
March Drilling Co.	L. Schroeder #2	330'S 330'E NWc SE Frac. NE Sec. 6-2N-3W	Devonian	2272'	146	455'

George Becker & Wm. M. Voegele	Holthaus #1	330'S 330'W NEc NW SW Sec. 10-2N-3W	Cypress	1080'	-------	464'
J. Chris Hetherington	J. Chris Hetherinton #1	330'S 330'E NWc NE NE Sec. 10-2N-3W	Cypress	1062'	7	464'
O. F. Sitzes	Kampwerth #1	330'N 330'E NWc NE SE Sec. 10-2N-3W	Cypress	1054'	-------	467'
Billy Joe Starr	Kruep #1	330'N 330'W SEc NW Sec. 10-2N-3W	Golconia	944'	20	465'
E. A. Obering	Varel #1	330'S 330'E NWc SE Sec. 1-1N-4W	Silurian	2425'	-------	436'
Gulf Refining Co	Billhartz Heirs #1	330'N 330'E SWc NE SW Sec. 21-1N-5W	Devonian	2062'	46	433'
Gulf Refining Co	F. Billhartz #1	330'N 330'E SWc SE NW Sec. 21-1N-5W	Devonian Silurian	2073'	42	433'
Jet Oil Co	Kalmer #2	330'N 330'E SWc NE SE Sec. 33-1N-5W	Devonian	2104'	150	403'
Collins Bros. Oil Co	Charles Good #2	330'N 330'E SWc Sec. 34-1N-5W	Silurian	2061'	180	403'
Collins Bros. Oil Co	C. J. Lauf #1	330'N 330'W SEc SW Sec. 34-1N-5W	Silurian	2077'	10	404'
Jet Oil Co	Frank Broeckling #1	330'S 330'W NEc NW Frac. NE Sec. 4-1S-5W	Silurian	2163'	216	422'
Gulf Refining Co	E. Oelze #14	330'S 990'W NEc NW Sec. 3-1S-5W	Devonian	2070'	67	402'
Gulf Refining Co	E. Oelze #4	330'S 330'E NWc SW NW Sec. 3-1S-5W	Silurian	2062'	209	402'
Gulf Refining Co	A. N. Harpstrite #1	330'N 330'W SEc SW NE Sec. 3-1S-5W	Dutch Creek	2035'	18	405'
Gulf Refining Co	E. Oelze #7	330'S 330'E NWc SE Sec. 3-1S-5W	Devonian	2240'	95	402'
Gulf Refining Co	E. Oelze #5	330'N 330'W SEc NW NW Sec. 3-1S-5W	Silurian	2063'	141	403'
Gulf Refining Co	A. H. Harpstrite #3	660'S of N Line 330'E of W Line NE¼ Sec. 3-1S-5W	Devonian	2058'	111	403'
Gulf Refining Co	E. Oelze #6	330'S 330'E NWc SW Sec. 3-1S-5W	Silurian	2065'	37	404'
Gulf Refining Co	E. Oelze #9	990'S N Line 330'W E Line NE¼ NW¼ Sec. 3-1S-5W	Devonian	2066'	64	406'
Gulf Refining Co	E. Oelze #11	330'S 330'E NWc NW Sec. 3-1S-5W	Silurian	2062'	258	402'
Gulf Refining Co	E. Oelze #12	330'N 330'W SEc NW Sec. 3-1S-5W	Devonian	2062'	238	465'
Gulf Refining Co	A. H. Harpstrite #2	330'S 330'E NWc SW NE Sec. 3-1S-5W	Devonian	2130'	131	402'
Gulf Refining Co	E. Oelze #13	330'N 330'W SEc NE NE Sec. 4-1S-5W	Silurian	2063'	157	402'
Gulf Refining Co	Philip Sauter #1	622' 330'W SEc Frac. NE Sec. 4-1S-5W	Devonian	2070'	41	402'
Gulf Refining Co	E. Oelze #8	330'S 330'E NWc NE NE Sec. 4-1S-5W	Silurian	2063'	293	403'
COLES COUNTY						
Dell Carroll	C. G. Carlyle #1-A	400'S 700'E NWc SW NW Sec. 11-11N-7E	Rosiclare	1970'	20	-------
Clyde Bassett	Haybrook #2	330'S 330'W NEc SW SW Sec. 2-13N-7E	Aux Vases	1900'	20	-------
Harold C. Sanders	Bessie Parker #1	330'N 330'E SWc NW NE Sec. 25-14N-7E	Rosiclare	1790'	38	650'
CRAWFORD COUNTY						
The Nation Oil Co	James Goodwin Farms #1	173'S 580'E NWc SE¼ NE¼ SW¼ Sec. 7-5N-10W	Pennsylvanian	940'	50	476'
James L. Anthony	J. J. Ford #1-A	330'S 330'W NEc NW Frac. Sec. 6-5N-11W	Robinson	995'	5	-------
Tide Water Associated Oil Co	J. W. Lindsay #16	341'S 340'W NEc SW Sec. 16-5N-11W	Robinson	983'	1	534'
Tide Water Associated Oil Co	#15 J. W. Lindsay	345'N 337'E SWc SE SW Sec. 16-5N-11W	Robinson	979'	1	527'
Ashland Oil & Refining Co	J. L. Lackey et al #1	330'N 330'W SEc SW SW Sec. 20-5N-11W	Robinson	916'	2	445'
Ashland Oil & Refining Co	Rosa Montgomery #1	330'S 300'W NEc SE NW Sec. 20-5N-11W	Robinson	956'	2	487'
Tide Water Associated Oil Co	Nat Lindsay #3	337'N 321'E SWc NE NW Sec. 21-5N-11W	Robinson	959'	8	509'
D. W. Franchot & Co	Tilton-Wampler Comm. #0-4	337'S 337'E NWc SE¼ SW¼ Sec. 21-5N-11W	Robinson	960'	½	509.9'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
CRAWFORD COUNTY—Continued						
Tide Water Associated Oil Co.	W. Montgomery #2 (Well #8)	338′S 350′W NEc NW SW Sec. 21-5N-11W	Robinson	945′	20	500′
E. F. Atkins and E. O. Hale	Everett Maxwell #2	330′N 330′E SWc NW SE Sec. 3-5N-12W	Cypress	1457′	75	595.5′
J. A. McDonnell	Esche-Steers et al Comm. #1	330′S 330′W NEc SW SW Sec. 3-5N-12W	Robinson	1680′	48	569′
E. F. Atkins and E. O. Hale	Ralph Maxwell #2	330′S 330′E NWc SW SE Sec. 3-5N-12W	Cypress	1466′	75	598′
J. A. McDonnell	Esche-Steer #2	330′S 330′E NWc SW SW Sec. 3-5N-12W	Robinson	908′	10	541′
Norman & Graef	Parker #1	990′N 330′E SWc NE¼ SE¼ Sec. 3-5N-12W	Benoist	1669′	40	579′
Norman & Graef	Parker-Hunt-Steffy #1	400′N 330′W SEc NE Sec. 3-5N-12W	Benoist	1546′	20	533′
J. A. MacDonell and Ellen O. MacDonell	Esche-Steers et al Comm. #4	330′N 330′W SEc SE¼ SW¼ SW¼ Sec. 3-5N-12W	McClosky	1653′	1,000,000 (gas)	565.70′
Tom L. Clark & Kenneth E. Bush	Bonnell-Smith #1	553′S 330′E NWc SE¼ Sec. 3-5N-12W	Robinson	1547′	1	584′
Athene Development Co., Inc.	Wesley-Shidler-Mefford Comm. #1	330′N 330′W SEc SW¼ NW¼ NE¼ Sec. 8-5N-12W	Pennsylvanian	1304′	146	----
John E. Carlson	Elmer Wesley #1	330′S 330′W NEc NW NE Sec. 8-5N-12W	Cypress	1310′	100	546′
Perry Fulk	Everett Daron #1	330′S 330′E NWc SW¼ NW¼ Sec. 9-5N-12W	Benoist	1500′	10	518′
Nance & Vivadelli	Blanche Buther et al #1	330′S 340′W NEc SE SW Sec. 9-5N-12W	Robinson	996′	10	507′
Perry Fulk	T. W. Mullins A-2	330′N 330′W SEc SW¼ SE¼ Sec. 9-5N-12W	Benoist	1513′	60	476′
Perry Fulk	J. W. Mullins #b-1	330′N 330′E SWc SE¼ SE¼ Sec. 9-5N-12W	Benoist	2041′	35.33	512′
James P. Dobbs	McKeighen-Steffy #1	330′S 330′W NEc SW¼ NE Sec. 11-5N-12W	Benoist	1481′	20	520′
D. W. Franchot Co.	C. Montgomery 0-1	336′N 338′W SEc NW¼ Sec. 16-5N-12W	Robinson	968.10′	¼	514.28′
Perry Fulk	Fern Harvey #1	330′S 330′E NWc NE¼ NE¼ Sec. 16-5N-12W	Aux Vases	1565′	35	523′
The Ohio Oil Co.	W. W. Allison et al #1	330′S 351′W NEc NW NE Sec. 16-5N-12W	Aux Vases Benoist	1585′	57	508′
Affeld Oil Co.	E. M. Cullom #1	330′N 330′E SWc Sec. 17-5N-12W	Cypress	1484′	60	465′
Affeld Oil Co.	Earnhart-Ridgway Comm. #2-A	330′S 330′E NWc SE¼ NW¼ Sec. Frac. 17-5N-12W	Cypress	2650′	461	1451′
Affeld Oil Co.	Foster-Cullom Comm. #1	330′S 330′E NWc SW SW Sec. 17-5N-12W	Cypress	1492′	60	480′
Affeld Oil Co.	Ridgway #4-B	330′S 330′W NEc SW Sec. 17-5N-12W	Cypress	1485′	125	495′
Affeld Oil Co.	Ridgway #3-B	330′S 330′E NWc NE SW Sec. 17-5N-12W	Cypress	1495′	125	492′
Affeld Oil Co.	Earnhart-Ridgway Comm. #2	330′N 330′W SEc NW Sec. 17-5N-12W	Cypress	1449′	150	455′
Affeld Oil Co.	Earnhart-Ridgway #3	330′N 330′E SWc SE NW Sec. 17-5N-12W	Cypress	1483′	150	489′
Affeld Oil Co.	Mefford #1	330′S 330′E NWc SW SE Sec. 17-5N-12W	Robinson	1590′	5	479′
Affeld Oil Co.	Ridgway #A-3	330′N 330′W SEc NW Frac. SW Sec. 17-5N-12W	Cypress	1515′	125	497′
Affeld Oil Co.	Ridgway #1	330′N 330′E SWc NW SW Sec. 17-5N-12W	Cypress	970′	125	492′
W. H. Davison	Martha A. Jewell #1	330′N 330′E SWc NE Sec. 17-5N-12W	Cypress	1503′	40	489′

W. H. Davison	Martha A. Jewell #2	330′N 990′E SWc NE Sec. 17-5N-12W	Cypress	1654′	360	482′
Affeld Oil Co	Ridgeway #A-2 (Twin Well)	380′N 400′E SWc NW SW Sec. 17-5N-12W	Cypress	1518′	10	497′
Affeld Oil Co	Ridgway-Cullum Comm. #1-B	330′N 330′E SWc NE SW Sec. 17-5N-12W	Cypress	1515′	200	497′
Affeld Oil Co	Walters-Bailey #2 Comm	330′N 330′E SWc NW SE Sec. 17-5N-12W	Cypress	1494′	100	484′
Davison and Co	Martha A. Jewell et al #3	330′S 330′E NWc SW NE Sec. 17-5N-12W	Cypress	1475′		492.6′
J. S. Young, Jr	Goff Heirs #1	700′S 243′E NWc Sec. 17-5N-12W	Benoist	1514′	20	512′
Jackson & Wrather	Ralph Seed #1	330′N 330′W SEc SW¼ SE¼ Sec. 17-5N-12W	Benoist	1623′	90	467′
Walton Drilling Co	Catherine Duncan et al #2	330′N 330′E SWc NE NW Sec. Frac. 17-5N-12W	Cypress	1572′		483′
Walton Drilling Co	Duncan #3	330′S 243′E NWc Sec. 17-5N-12W	Robinson	1583′		
Joe Bander	Elmer Baker #4-E	330′S 400′E NWc SE¼ NW¼ Sec. 18-5N-12W	Robinson	1010′		489′
Affeld Oil Co	Legg Heirs #2	330′N 330′E SWc SE SE Sec. Frac. 18-5N-12W	Cypress	1492′	175	468′
Affeld Oil Co	Mefford-Taylor Comm. #1	330′N 330′W SEc Sec. Frac. 18-5N-12W	Cypress	1487′	20	460′
W. W. Toler Drilling Corp	E. Baker #3	330′S 330′E NWc SE NW Sec. 18-5N-12W	Lower Robinson	1688′	25	488′
Affeld Oil Co	Emmons #1	330′N 330′E SWc SE Sec. 18-5N-12W	Cypress	1495′	30	473′
E. Constantin, Jr	Emmons 0-2	330′S 330′W NEc NE SW Sec. 18-5N-12W	Cypress	1496′	10	493′
Affeld Oil Co	Emmons #2	330′S 330′E NWc SW SE Sec. 18-5N-12W	Cypress	1504′	30	483′
E. Constantin, Jr	Emmons #0-4	330′N 330′W SEc NE SW Sec. 18-5N-12W	Cypress	1498′	10	487′
W. W. Toler	E. Baker #2	990′S 330′W NEc SE NW Sec. 18-5N-12W	Cypress	1570′	25	496′
Affeld Oil Co	Charles E. Legg #1	330′S 330′E NWc Sec. 20-5N-12W	Cypress	1615′	20	455.80′
Affeld Oil Co	Charles E. Legg #2	330′S 330′W NEc NW¼ NW¼ Sec. 20-5N-12W	Cypress	1492′	100	468′
Ervin Drilling Co	Lawrence #1	330′S 330′E NWc NE Sec. 20-5N-12W	Benoist	1655′	12	479′
A. W. Rea	Bert Mefford #1	330′S 330′E NWc NE NE Sec. 20-5N-12W	Benoist	1626′	70	441′
Ervin Drilling Co	Lawrence #2	330′N 330′E SWc NW NE Sec. 20-5N-12W	Benoist	1608′	8	476′
A. W. Rea	Mefford #1	330′S 330′W NEc Sec. 20-5N-12W	Benoist	1587′	115	438′
Ervin Drilling Co	Lawrence #3	330′S 330′W NEc SE¼ NE¼ Sec. 20-5N-12W	Rosiclare Aux Vases	1601′	4	448′
Ervin Drilling Co	Anna Wesley #1	330′S 330′W NEc SW¼ NW¼ Sec. 20-5N-12W	Benoist	1605′	6	462′
J. S. Young, Jr	Pinkstaff-Emmons #1	330′S 330′E NWc NE NW Sec. 20-5N-12W	Benoist	1734′		476′
A. W. Rea	Mefford-Emmons #1	330′N 330′E SWc NW NW Sec. 21-5N-12W	Aux Vases	1600′	20	463′
W. T. Frederking & A. P. Wagemann	Dorothy Crebs #1	330′N 330′E SWc NE¼ NW¼ Sec. 21-5N-12W	Benoist	1617′	30	465′
John Miller	Wilbur M. Wesley #1	330′S 330′E NWc SE NW Sec. 21-5N-12W	Pennsylvanian Benoist Robinson	1750′	17	466′
Tide Water Associated Oil Co	Joseph Due #10	686′S 670′W NEc SE NW Sec. 2-5N-13W	Robinson	1008′		458′
Ray Willis	Ashcraft #1	330′N 330′W SEc SW SE Sec. 13-5N-13W	Cypress	1495′	60	435′
Davison and Co	Aldah Bussard et al #1	330′N 330′W SEc Sec. 13-5N-13W	Cypress	1514′	10	449′
Partlow and Cochonour	Mary Rich #9	283 N 618′W SEc NE SE Sec. 35-6N-12W	Robinson	1018′	4	
Tide Water Associated Oil Co	M. Birch #1	35′E SWc NW NE NW Sec. 14-6N-13W	Robinson	1020′	2	498′
Tide Water Associated Oil Co	M. Birch #1, Well #15	342′N 310′E SWc NW¼ NW¼ Sec. 14-6N-13W	Robinson	1014′	1	488′
Mahutska Oil Co	William Walker #16-"A"	660′S 685′E NWc NW NE Sec. 15-6N-13W	Robinson	957′	1	
The Ohio Oil Co	R. W. Mitchell a/c 2 #4	330′S 330′E NWc SW SE Sec. 26-6N-13W	Robinson	965′	4	497′
The Ohio Oil Co	R. W. Mitchell a/c 2 #5	330′N 330′E SWc SE Sec. 26-6N-13W	Robinson	975′	6	492′
Sumner Wilson	Savilla Shipman #14	365′S 325′W NEc SW Sec. 26-6N-13W	Robinson	978.03′	5	504′
The Ohio Oil Co	C. E. Walker Heirs #15	330′N 330′W SEc NE SE Sec. 27-6N-13W	Fredonia	1850′	12	494′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
CRAWFORD COUNTY—Concluded						
W. L. Pickens	Steward #14	320′S 210′W NEc NW SE Sec. 28-6N-13W	Robinson	940′	40	468′
The Ohio Oil Co.	S. Price Heirs #22	330′N 330′W SEc SW NW Sec. 34-6N-13W	Robinson	979′	4	478′
Partlow & Cochonour	John Rich #2	534′S 215′W NEc SE¼ SE¼ Sec. 35-6N-12W	Robinson	1012′	1	--------
Partlow & Cochonour	Mary Rich 0-1	10′N 880′W SEc NE SE Sec. 35-6N-12W	Robinson	1028′	14	--------
Partlow & Cochonour	Mary Rich #0-2	30′N 330′W SEc NE SE Sec. 35-6N-12W	Robinson	1014′	3	--------
Partlow & Cochonour	Mary Rich #7	181′S 194′W NEc SE¼ SE¼ Sec. 35-6N-12W	Robinson	1023′	1½	--------
Partlow & Cochonour	Mary Rich #12	198′S 278′E NWc SE SE Sec. 35-6N-12W	Robinson	1020′	2	--------
Ernest V. Sanders, Sr.	Richart Heirs #2	330′S 330′W NEc NW¼ SE¼ Sec. 36-6N-13W	Robinson	943′	--------	--------
Ervin Drilling Co.	Henderson #1	330′N 330′W SEc SW¼ Sec. 7-6N-12W	Robinson	524′	2	--------
Bury Drilling Co.	J. R. Sparke #1	330′N 330′E SWc Frac. NE SW Sec. 15-6N-12W	Aux Vases	1619′	1541	530′
C. S. Cooksey	Sparks-Haynes Comm. #1	330′N 330′W SEc NE¼ SE¼ Sec. 16-6N-12W	Aux Vases	1568′	50	531′
G. W. Kime	Harold Anderson #2	330′N 330′W SEc NW¼ NE¼ Sec. 23-6N-12W	Aux Vases	1594′	10	--------
Perry Miller	Dennis #2	330′S 330′W NEc SE NW Sec. 24-6N-12W	McClosky	1682′	--------	--------
The Ohio Oil Co.	Geo. P. Hopkins	330′S 330′E NWc NE¼ SW¼ Sec. 23-6N-13W	Robinson	1012′	2	497′
Tide Water Associated Oil Co.	G. L. Thompson #10	330′S 330′E NWc SE NE Sec. 27-6N-13W	Robinson	976′	1	486′
Earnest V. Sanders, Sr.	Richart Heirs #1	330′N 330′W SEc NW¼ SE¼ Sec. 36-6N-13W	Robinson	928′	6	--------
Grant W. Kime	Schook #1	330′N 330′W SEc NE SW Sec. 16-7N-12W	Benoist	1922′	--------	567.5′
The Ohio Oil Co.	J. C. Wilson #31	900′S 280′W NEc NW¼ NW¼ Sec. 17-7N-12W	Robinson	1065′	3	571′
The Ohio Oil Co.	J. C. Wilson a/c 1 #32	120′S 280′W NEc SW¼ NW¼ Sec. 17-7N-12W	Robinson	1078′	2	564′
George H. Wickham	Price Barlow Heirs #1	330′S 330′E NWc NE NW Sec. 17-7N-12W	Robinson	1070′	12	572′
George H. Wickham	Wilson Heirs #2	330′S 330′E NWc SW Sec. 17-7N-12W	Robinson	1052′	3	554′
Logan Oil Co.	Morrison #0-2	533′S 240′W NEc SW Sec. 20-7N-12W	Robinson	981′	5	--------
Logan Oil Co.	Morrison #0-3	1035′S 160′E NWc NE SW Sec. 20-7N-12W	Robinson	980′	20	--------
Gilbert F. Critchfield	Ray Ridgeway #1	330′N 330′W SEc NW¼ SW¼ Sec. 23-7N-12W	Robinson	956′	12	712′
J. A. MacDonell	Green #1	330′N 330′E SWc SE¼ NW¼ Sec. 23-7N-12W	Robinson	1036′	10	494.32′
C. & S. Drilling Co.	Henry #1	330′N 330′E SWc SE SW Sec. 3-7N-13W	Robinson	1001′	200	--------
The Ohio Oil Co.	O. O. Henry #2	330′W NEc SW Sec. 9-7N-13W	Robinson	1031′	3	537′
Tide Water Associated Oil Co.	Ed. Stifle Well #27	330′S 330′E NWc SW NE Sec. 10-7N-13W	Robinson	1009′	1	533′
Tide Water Associated Oil Co.	Ed. Stifle Well #28	310′S 285′W NEc SE NW Sec. 10-7N-13W	Robinson	1012′	1	524′
Tide Water Associated Oil Co.	W. A. Howard #18	93′S 320′E NWc SE NW NE Sec. 11-7N-13W	Robinson	1000′	1	497′
Tide Water Associated Oil Co.	W. A. Howard #19	686′S 353′E NWc NE Sec. 11-7N-13W	Robinson	950′	1	498′
Midwest Drilling Co., Inc.	Cooley #1-B	330′N 330′E SWc NW NW Sec. 11-7N-13W	Robinson	1003′	10	532′
The Ohio Oil Co.	Earl Stantz et al #1	680′S 235′E NWc SE SW Sec. 13-7N-13W	Robinson	1035′	3	526′

The Ohio Oil Co.	M. D. Eaton a/c 1 #31	5′N 35′E SW NE NW Sec. 13-7N-13W	Robinson	1042′	4	529′
Tide Water Associated Oil Co.	C. M. Stifle #2, Well #9	663′N 669′W SEc NE NW Sec. 12-7N-14W	Robinson	1015′	½	487′
The Ohio Oil Co.	Guy Comly #7	1585′S 370′W NEc SE Sec. 13-7N-14W	Robinson	1000′	2	497′
The Ohio Oil Co.	M. D. Eaton a/c 1 #33	215′N 215′E SWc NW Sec. 13-7N-13W	Robinson	1017′	2	521′
The Ohio Oil Co.	M. A. Wilson et al #2	150′S 330′E NWc NE Sec. 13-7N-13W	Robinson	1026′	3	534′
The Ohio Oil Co.	M. A. Wilson et al #1	215′N 280′E SWc NE SW Sec. 13-7N-13W	Robinson	1034′	3	523′
The Ohio Oil Co.	W. H. Randolph a/c 1 #9	210′N 230′W SEc NE SE Sec. 14-7N-13W	Robinson	1020′	3	517′
The Ohio Oil Co.	L. H. Randolph #14	7508′N 250′W SEc NE Sec. 14-7N-13W	Robinson	1010′	2	523′
The Ohio Oil Co.	J. L. Hill #10	330′S 330′W NEc NW NW Sec. 15-7N-13W	Robinson	966′	3	515′
Tide Water Associated Oil Co.	R. M. Clark #24	611′N 579′E SWc SE SW Sec. 18-7N-13W	Robinson	960′	21	494′
Tide Water Associated Oil Co.	R. M. Clark #23	145′S 143′E NWc NE SW SW Sec. 18-7N-13W	Robinson	985′	33	502′
Tide Water Associated Oil Co.	R. M. Clark #25	672′N 814′E SWc Sec. 18-7N-13W	Robinson	1003′	1	501′
Tide Water Associated Oil Co.	R. M. Clark #26	680′N 290′E SWc Sec. 18-7N-13W	Robinson	993′	60	497′
William O. Muller	Whitmer #1	330′S 330′W NEc Sec. 23-7N-13W	Robinson	987′	15	520′
Sapphire American Petroleum, Inc.	J. V. Boyd #0-20	330′S 330′E NWc SE SW Sec. 24-17-13W	Robinson	915′	3	534.4′
Sapphire American Petroleum, Inc.	M. Boyd #0-21	332′S 325′W NEc SE SW Sec. 24-7N-13W	Robinson	899′	2	538′
Sapphire American Petroleum, Inc.	M. Boyd #0-27	330′N 331′W SEc SW Sec. 24-7N-13W	Aux Vases	900′	20	-------
Sapphire American Petroleum, Inc.	Peter Tracy #0-14	229′N 325′W SEc NE SW Sec. 24-7N-13W	Robinson	912′	5	539.23′
Davis Lambert	Ed. Immel #1	330′S 460′E NWc Sec. 13-7N-14W	Robinson	1008′	5	-------
Tide Water Associated Oil Co.	James Lefever #13	1435′N 967′E SWc NE¼ Sec. 13-7N-14W	Robinson	996′	20	497′
Tide Water Associated Oil Co.	R. L. Musgrave #1	250′N 1065′E SWc NE¼ Sec. 13-7N-14W	Robinson	993′	1	497′
Tide Water Associated Oil Co.	R. L. Musgrave #2	220′S 1075′E NWc SE¼ Sec. 13-7N-14W	Robinson	1004′	1	496′
Tide Water Associated Oil Co.	R. L. Musgrave #3	380′N 345′E SWc NE¼ Sec. 13-7N-14W	Robinson	993′	1	498′
Davis Lambert	Walter Holmes #1	990′N 330′E SWc SE SW Sec. 8-8N-12W	Robinson	1020′	4	565′
The Ohio Oil Co.	J. W. Fawley #10	330′N 330′E SWc NW¼ SE¼ Sec. 31-8N-12W	Robinson	992′	3	556′
E. Constantin, Jr.	Novosel #0-3	330′N 275′E SWc NE SW Sec. 32-8N-12W	Pennsylvanian	1050′	1	-------
E. Constantin, Jr.	Wilkin #0-4	330′N 275′W SEc NW SW Sec. 32-8N-12W	Pennsylvanian	1050′	1	-------
Kenneth C. Bell	Dr. Hill Heirs #1-A	330′S 330′E NWc NW¼ SW¼ Sec. 24-8N-13W	Robinson	1535′	25	559′
Midwest Drilling Co., Inc.	Newlin #B-3	330′S 330′W NEc SE¼ NE¼ Sec. 25-8N-13W	Robinson	1591′	-------	-------
Kenneth C. Bell	Presley Lamb #A-1	SEc NW NE Sec. 26-8N-13W	Robinson	1022′	10	562′
G. M. J. Oil Co.	J. S. Walker #1	330′N 330′E SWc SE SW Sec. 34-8N-13W	Robinson	1030′	25	581′
Sapphire American Petroleum, Inc.	Mollie Walters #0-34	330′S 330′W NEc NW Sec. 29-7N-13W	Robinson	928′	1	532.9′
Russell E. Bauer	Ralph Newlin et al #1	330′S 330′E SWc SE NW Sec. 29-7N-13W	Benoist	1337′	10	497′
Midwest Drilling Co., Inc.	Newlin #A-3	330′N 330′W SEc NE Sec. 25-8N-13W	Robinson	1100′	10	553′
Harry Adams	Williamson & Chapman #1	330′S 330′W NEc SW SW Sec. 25-8N-13W	Robinson	1020′	7	562′
James G. Beard	Francis #1	374′S 330′E NWc NE NW SW Sec. 4-8N-13W	Robinson	1517′	20	526′
James G. Beard	Bassett #2	330′S 330′W NEc NW NW SW Sec. 4-8N-12W	Pennsylvanian	1150′	20	526′
J. E. Rocke	Boyll #1	2370′N 330′W Sec. NW Frac Sec. 6-8N-12W	Robinson	1020′	10	574′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
CUMBERLAND COUNTY						
Forest Oil Corp	S. S. Yanaway F-98, Siggins Flood #10	220'N 10'W SEc NW SE SW Sec. 1-10N-10E	Siggins	456'		629'
Forest Oil Corp	S. S. Yanaway E-99, Siggins Flood #10	220'S 220'E NWc SW SE SW Sec. 1-10N-10E	Siggins	459'		629'
Forest Oil Corp	S. S. Yanaway G-99, Siggins Flood #10	210'S 230'W NEc SE SE SW Sec. 1-10N-10E	Siggins	454'		629'
Forest Oil Corp	S. S. Yanaway F-99, Siggins Flood #10	210'S 5'W NEc SW SE Sec. 1-10N-10E	Siggins	454'		629'
Forest Oil Corp	J. Sidwell B-99, Siggins Flood #10	220'S 220'E NWc SW SW SW Sec. 1-10N-10E	Siggins	445'		627'
Forest Oil Corp	S. S. Yanaway H-99, Siggins Flood #10	210'S 210'E NWc SW SW SE Sec. 1-10N-10E	Siggins	443'		629'
Forest Oil Corp	S. S. Yanaway K-99, Siggins Flood #10	210'S 240'W NEc SE SW SE Sec. 1-10N-10E	Siggins	420'		630'
Forest Oil Corp	S. S. Yanaway K-100, Siggins Flood #10	1'N 230'W SEc SW SE Sec. 1-10N-10E	Siggins	420'		630'
Forest Oil Corp	S. S. Yanaway M-100, Siggins Flood #10	1'N 1'W SEc SW SE SE Sec. 1-10N-10E	Siggins	409'		621'
Forest Oil Corp	S. S. Yanaway J-99, Siggins Flood #10	210'S 5'W NEc SW SW SE Sec. 1-10N-10E	Siggins	425'		631'
Forest Oil Corp	S. S. Yanaway L-99, Siggins Flood #10	210'S 190'E NWc SW SE SE Sec. 1-10N-10E	Siggins	416'		627'
Forest Oil Corp	J. Sidwell B-98, Siggins Flood #10	220'N 220'E SWc NW SW SW Sec. 1-10N-10E	Siggins	441'		677'
Forest Oil Corp	J. Sidwell B-100, Siggins Flood #10	1'N 220'E SWc Sec. 1-10N-10E	Siggins	446'		626'
Forest Oil Corp	J. Sidwell C-98, Siggins Flood #10	220'N 1'E NEc SW SW Sec. 1-10N-10E	Siggins	435'		627'
Forest Oil Corp	S. S. Yanaway E-98, Siggins Flood #10	220'N 220'E SWc NW SE SW Sec. 1-10N-10E	Siggins	461'		628'
Forest Oil Corp	S. S. Yanaway F-100, Siggins Flood #10	1'N 1'E SWc SE SE SW Sec. 1-10N-10E	Siggins	447'		630'
Forest Oil Corp	S. S. Yanaway G-100, Siggins Flood #10	1'S 230'W NEc NW Sec. 1-10N-10E	Siggins	457'		628'
Forest Oil Corp	I. Y. Strockbine A-98, Siggins Flood #10	220'N 220'W SEc NE SE SE Sec. 2-10N-10E	Siggins	452'		626'
Forest Oil Corp	I. Y. Strockbine A-99, Siggins Flood #10	220'S 220'W NEc SE SE SE Sec. 2-10N-10E	Siggins	449'		627'
Forest Oil Corp	I. Y. Strockbine A-100, Siggins Flood #10	10'N 210'W SEc Sec. 2-10N-10E	Siggins	450'		627'
Forest Oil Corp	I. Y. Strockbine ZZ-98, Siggins Flood #10	220'N 1'W SEc NW SE SE Sec. 2-10N-10E	Siggins	472'		624'
Forest Oil Corp	I. Y. Strockbine ZZ-99, Siggins Flood #10	220'S 1'E NWc SE SE SE Sec. 2-10N-10E	Siggins	463'		626'
Forest Oil Corp	I. Y. Strockbine ZZ-100, Siggins Flood #10	10'S 1'E NWc NE NE NE Sec. 11-10N-10E	Siggins	456'		627'
Forest Oil Corp	S. S. Yanaway M-99, Siggins Flood #10	210'S 10'W NEc SW SE SE Sec. 1-10N-10E	Siggins	417'		629'
Forest Oil Corp	S. S. Yanaway G-98, Siggins Flood #10	220'N 220'W SEc NE SE SW Sec. 1-10N-10E	Siggins	446'		629'
Forest Oil Corp	S. S. Yanaway H-100, Siggins Flood #10	1'N 230'E SWc SE Sec. 1-10N-10E	Siggins	433'		629'
Forest Oil Corp	S. S. Yanaway L-100, Siggins Flood #10	1'S 230'E NWc NE NE Sec. 12-10N-10E	Siggins	414'		629'
Forest Oil Corp	S. S. Yanaway J-100, Siggins Flood #10	1'S 1'W NEc NW NW NW Sec. 12-10N-10E	Siggins	431'		629'

J. A. Hill	Strockbine & Irby #1	330'S 330'W NEc NW NE Sec. 11-10N-10E	Casey	525'		
J. A. Hill	F. T. Benson #1	330'S 330'W NEc SW Sec. 11-10N-10E	Casey	530'		
Forest Oil Corp	S. S. Yanaway E-100, Siggins Flood #10	1'S 230'E NWc NE NW Sec. 12-10N-10E	Siggins	452'		625'
Forest Oil Corp	J. Sidwell C-100, Siggins Flood #10	1'S 1'W NEc NW NW NW Sec. 12-10N-10E	Siggins	447'		627'
J. G. Ellis	Yanaway #2	330'N 330'W SEc SW Sec. 35-10N-10E	Pennsylvanian	532'	2	
EDGAR COUNTY						
Morris H. C. Johnson, Jr	Kirkham #1	480'N 330'E SWc NE SE Sec. 14-12N-14W	Pennsylvanian	360'		
B. W. Johnson	Kirkham #2	440'S 330'E NWc NE SE Sec. 14-12N-14W	Pennsylvanian	358½'	3	
National Associated Petroleum Co	Edwin G. Gill #1	330'N 330'E SWc SE NW Sec. 16-1S-10E	O'Hara	3362'	20	434'
New Illinois Mid-Continent Oil Co	Foster Ramsey #1	330'N 330'E SWc SE Sec. 7-2S-10E	Benoist Aux Vases	3393'	100	449'
New Illinois Mid-Continent Oil Co	Harris-Woods Comm. #1	330'S 330'E NWc NE Sec. 18-2S-10E	Benoist Aux Vases	3374'	200	431'
Allen Bros	Schock-Funkhouser #1	330'N 330'W SEc NE SE Sec. 1-2S-10E	McClosky	3172'	168	445'
Allen Bros	Schock-Funkhouser #2	330'N 330'E SWc NE SE Sec. 1-2S-10E	Rosiclare	3168'	200	445'
New Illinois Mid-Continent Oil Co	Oscar J. Vincent #1-B	330'S 330'E NWc SW NW Sec. 32-2S-10E	Aux Vases	3294'	30	
Illinois Mid-Continent Oil Co	Oscar Vincent #1	330'N 330'W SEc NE	Aux Vases	3330'	60	380'
EDWARDS COUNTY						
John W. Rudy	Earl W. Brown #B-1	330'N 330'W SEc Sec. 2-1N-10E	McClosky	3189'	20	443'
John W. Rudy	McDowell Cons. #1	660'S 330'W NEc Sec. 11-1N-10E	McClosky	3189'	35	444'
John W. Rudy	Schmidt-Gray Comm. #1	330'N 330'E SWc SE NE Sec. 11-1N-10E	McClosky	3211'	16	
Skiles Oil Corp	Lillie Bunting "A" #1	330'N 330'E SWc SE Sec. 24-1N-10E	O'Hara	3248'	98	447'
Oldfield Oil Co	Ross Hedrick #1-A	330'S 330'W NEc NW SW Sec. 8-1N-14W	Paint Creek	3128'	25	454'
Magnolia Petroleum Co	C. C. Brake #4	330'S 330'W NEc SW NW Sec. 31-2N-14W	Rosiclare	3100'	11	510'
National Associated Petroleum Co	Edwin G. Gill #1	330'N 330'E SWc SE NW Sec. 16-1S-10E	O'Hara	3362'	20	434'
Allen Bros	Edwin Peters #1	330'S 330'E NWc Frac. SW SE Sec. 31-1S-11E	O'Hara	3136'	25	473'
Walter Milhahn	A. Felstead #1	330'N 330'E SWc NW SW Sec. 20-1S-14W	Cypress	2720.5'	90	468'
Allen Bros	Elizabeth Scott #1	330'S 330'E NWc SW NE Sec. 1-2S-10E	Aux Vases	3222'	65	500'
Allen Brothers	Schock-Funkhouser #1	330'N 330'W SEc NE SE Sec. 1-2S-10E	McClosky	3172'	168	445'
Virgil I. Helgen	Fewkes Comm. #1	330'N 330'W SEc NE Sec. 1-2S-10E	Aux Vases	3185'	1200	458'
Allen Brothers	Schock-Funkhouser #2	330'N 330'E SWc NE SE Sec. 1-2S-10E	Rosiclare	3168'	200	445'
Allen Bros	Schock-Funkhouser, City of Albion, Lease #1	1015.6'S 269'W NEc SW Sec. 1-2S-10E	Aux Vases	3222'	35	483'
Allen Bros	Schock-Funkhouser #3	330'N 330'W SEc NW SE Sec. 1-2S-10E	Aux Vases	3159'	30	443'
New Illinois Mid-Continent Oil Co	Foster Ramsey #1	330'N 330'E SWc SE Sec. 7-2S-10E	Aux Vases	3393'	100	449'
New Illinois Mid-Continent Oil Co	Harris-Woods Comm. #1	330'S 330'E NWc NE Sec. 18-2S-10E	Aux Vases	3374'	200	431'
The Noah Petroleum Co	Charles Johnson #1	330'S 330'W NEc SW Sec. 18-2S-10E	McClosky	3380'	25	435'
Don Baines	Frank McCord #2	330'S 330'E NWc Sec. 19-2S-10E	McClosky	3370'	125	472'
Illinois Mid-Continent Oil Co	Oscar Vincent #1	330'N 330'W SEc NE Sec. 31-2S-10E	Aux Vases	3330'	60	380'
New Illinois Mid-Continent Oil Co., and Indiana Farm Bureau Co-op Assn	Albert C. Smith #1	330'N 330'W SEc NE NE Sec. 31-2S-10E	Aux Vases	3232'	50	378'
New Illinois Mid-Continent Oil Co	Oscar J. Vincent #1B	330'S 330'E NWc SW NW Sec. 32-2S-10E	Aux Vases	3294'	30	
New Illinois Mid-Continent Oil Co., and Indiana Farm Bureau Co-op Assn	Lawrence Hallam et al #1	330'S 330'E NWc SW Sec. 32-2S-10E	Aux Vases	3232'	100	381'
New Illinois Mid-Continent Oil Co., and Indiana Farm Bureau Co-op Assn	Lawrence Hallam #2	330'N 330'E SWc Sec. 32-2S-10E	Aux Vases	3231'	25	388'
Allen Bros	Brown #1-A	330'S 430'E NWc SW Frac. Sec. 6-2S-11E	Aux Vases	3102'	500	436'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
EDWARDS COUNTY—Concluded						
Allen Bros.	Brown #1	330'S 330'E NWc SW Frac. Sec. 6-2S-11E	McClosky	3159'	150	440'
Allen Bros.	Brown #2	330'S 330'W NEc NW SW Sec. 6-2S-11E	Aux Vases	3148'	600	426'
First National Petroleum Trust	Brown #3	1650'N 330'E SWc Frac. Sec. 6-2S-11E	Aux Vases	3046'	15	435'
Will I. Lewis	D. Crackel #3	330'N 990'E SWc SE SW Frac. Sec. 6-2S-11E	Aux Vases	3162'	35	424'
Superior Oil Co.	H. W. Fewkes #5	330'S 330'E NWc SW Frac. Sec. 7-2S-11E	Aux Vases	3055'	28	446'
H. E. Walton d/b/a Roy Pledger	H. E. Johnson et al #1	330'S 330'W NEc SW NW Sec. 9-2S-14W	Aux Vases	3020'	20	403'
EFFINGHAM COUNTY						
Tide Water Associated Oil Co.	James E. Burk #5	330'S 330'W NEc SE SW Sec. 27-6N-5E	Rosiclare	2455'	82	566'
Partlow & Cochonour	Wood Brown #1	660'S 330'E NWc NE NE Sec. 10-6N-6E	McClosky	2692'	30	533'
Partlow & Cochonour	Brown #1	430'S 330'W NEc Sec. 10-6N-6E	McClosky	2709'	214	535'
Partlow & Cochonour	Wright #1	330'S 330'W NEc SE NE Sec. 10-6N-6E	McClosky	2670'	125	492'
Partlow & Cochonour	Burk #1	330'S 330'W NEc SE Sec. 10-6N-6E	McClosky	2710'	68	535'
Partlow & Cochonour	Trustees of Lucas Township School District #1	330'S 330'W NEc NW SW Sec. 11-6N-6E	McClosky	2726'	166	540'
Partlow & Cochonour	Kraas #2	330'N 330'E SWc NW NW	McClosky	2669'	120	488'
Partlow & Cochonour	A. M. Woody #1	330'S 330'E NWc SW Sec. 12-6N-6E	Cypress	2867'	40	578'
Partlow & Cochonour	Tr. Lucas Twp. Schools #2	330'N 330'E SWc NW SW Sec. 11-6N-6E	McClosky	2728'	142	538'
Partlow & Cochonour	Wilmoits Poe #1	330'N 330'E SWc SE NW Sec. 12-6N-6E	Cypress	2800'	30	546'
Partlow & Cochonour	Oma Kraas #1	330'N 330'E SW NW	McClosky	2723'	200	540'
Coy Oil, Inc.	Wm. Mellendorf #2	330'N 330'W SEc Sec. 36-6N-6E	Aux Vases	2718'	3	531'
Partlow & Cochonour	French #1	330'S 330'E NWc Sec. 34-7N-7E	Cypress	2493'	22	571'
Partlow & Cochonour	French "C" #1	330'S 330'E NWc NE NW Sec. 34-7N-7E	Cypress	2867'	½	578'
Floyd E. Thompson	Roy Workman #2	474'S 330'E NWc SW NW Sec. 7-8N-4E	Cypress	1545'	5	601'
John M. Zanetis	C. M. Patterson #1	330'S 330'E NWc NE NW Sec. 18-8N-4E	Cypress	1562'	23	598'
James L. Schaefer	Fred H. Zerrusen #1	330'N 330'W SEc Sec. 28-8N-7E	Rosiclare	2622'	200	589'
Wm. Griffin	H. Hoalscher #2	990'N 990'W SEc SW NE Sec. 33-8N-7E	McClosky	2654'	15	
R. H. Troop	D. P. Doty #2	330'S 330'E NWc SW Sec. 7-8N-4E	Cypress	1545'	50	610'
Floyd E. Thompson	Floyd E. Thompson #1	330'N 330'E SWc SW SW NW Sec. 7-8N-4E		1544'	60	596'
FAYETTE COUNTY						
Clyde Bassett	Cox #1	330'S 330'W NEc Sec. 16-4N-1W	Benoist	1384'	57	
Gulf Refining Co.	Wm. Small #20	280'S 330'W NEc SE SE Sec. 25-6N-2E	Rosiclare	1890'	20	537'
W. L. Belden	M. Durbin #1	330'N 330'E SWc NE SE Sec. 4-7N-3E	Cypress	1610'	5	600'
W. L. Belden	R. E. Sather #1-B	290'N 330'E SWc NE SE Sec. 17-7N-3E	Cypress	1556'	8	602'
Shell Oil Co.	South Water Flood Unit #38	315'S 380'E NWc SW Sec. 28-7N-3E	Cypress	1595'		606'
W. L. Belden	Hinton et al #1	330'S 330'E NWc NW SE NE Sec. 32-7N-3E	Cypress	1587'	120	607'

Carter Oil Co.	Carter-Kinsey #1	330′S 330′W NEc SE SE Sec. 12-8N-3E	Upper Weiler	1558′	69	607′
Carter Oil Co.	Rhodes Unit #11 (Formerly Ginsburg Rhodes "A" #4)	405′S 225′W NEc NW SE Sec. 27-8N-3E	Bethel	1609′	2	-------
Carter Oil Co.	Weaber-Horn #2	330′N 285′W SEc NE NW Sec. 28-8N-3E	Aux Vases	1510′	186	529′
Carter Oil Co.	Edith Marshall #4	330′S 285′W NEc SE NW Sec. 28-8N-3E	Aux Vases	1522′	288	531′
H. E. Frailey & K. C. Tate	Frank Buzzard #1	330′N 330′W SWc NW Sec. 35-9N-3E	McClosky	1545′	10	610′
FRANKLIN COUNTY						
Paul Mosebach	Harrison #2	330′N 330′W SEc NE Sec. 35-5S-1E	Aux Vases	2779′	80	470′
Artnell Co.	Shelton #1B	330′N 330′E SWc NW SW Sec. 16-5S-2E	Rosiclare	2362′	20	441′
Artnell Co.	Shelton #2B	330′N 330′W SEc NW SW Sec. 16-5S-2E	Cypress	2463′	10	435′
Will I. Lewis	Stalcup #3	330′S 330′W NEc SE Sec. 19-5S-3E	Rosiclare	2963′	40	463′
Will I. Lewis	Stalcup #4	330′S 372′E NWc NE SE Sec. 19-5S-3E	Cypress	2905′	40	456′
Oil Management, Inc	A. Cook #1	330′S 330′E NWc SW Sec. 28-5S-3E	O'Hara	2935′	91	487′
Oil Management, Inc	Rolla Ingham #1	330′S 330′E NWc SW SW Sec. 28-5S-3E	O'Hara	2940′	243	486′
Oil Management, Inc	Vern Jones #1-A	330′N 330′W SEc NE SE Sec. 29-5S-3E	O'Hara	2930′	275	489′
Oil Management, Inc	Ollie D. Smith #1	330′S 330′W NEc SE SE Sec. 29-5S-3E	O'Hara	2945′	200	481′
Oil Management, Inc	Ollie D. Smith #2	330′N 330′W SEc Sec. 29-5S-3E	O'Hara	2945′	185	481′
Oil Management, Inc	Winemiller #1	330′N 330′W SEc NE Sec. 29-5S-3E	O'Hara	2928′	102	488′
Aurora Gasoline Co.	U. S. Steel Co. #2	330′S 330′E NWc NE NE Sec. 32-5S-3E	O'Hara	2986′	90	480′
Aurora Gasoline Co.	U. S. Steel Co. #1	330′S 330′E NWc Sec. 33-5S-3E	O'Hara	2921′	550	476′
Paul Mosebach	Eurgil #1	417.72′S 993.36′W NEc Sec. 2-6S-1E	Devonian	4434′	11	440′
National Associated Petroleum Co.	Giles #1-D	390′N 330′E SWc NW SW Sec. 13-6S-1E		2822′	145	474′
National Associated Petroleum Co.	Fourez #1-F	260′N 375′E SWc Sec. 13-6S-1E	Aux Vases	2694′	124	454.89′
National Associated Petroleum Co.	Giles #1-F	300′S 330′W NEc SW SW Sec. 13-6S-1E	Aux Vases	4479′	258	459′
National Associated Petroleum Co.	Majdich #1-D	235′N 270′W SEc SW NW Sec. 13-6S-1E	Aux Vases	2700′	84	450.49′
National Associated Petroleum Co.	Lindsay-Miller #1-D	650′N 640′W SEc NE NE Sec. 14-6S-1E	Aux Vases	2732′	10	493′
National Associated Petroleum Co.	Lindsay-Meschino #1-D	570′S 390′W NEc SE NE Sec. 14-6S-1E	Aux Vases	2767′	47	462.39′
National Associated Petroleum Co.	Tonini #1-E	375′S 230′E NWc SE SE Sec. 14-6S-1E	Aux Vases	2700′	144	454.66′
National Associated Petroleum Co.	Lindsay-Gunter #1-E	490′N 330′W SEc NE NE Sec. 23-6S-1E	Aux Vases	2685′	70	444.07′
National Associated Petroleum Co.	Hart #1-F	250′S 530′E NWc SW NW Sec. 24-6S-1E	Aux Vases	2728′	117	422.42′
GALLATIN COUNTY						
Thomas S. Doran	McKenzie-Pankey Comm. #2	330′N 330′W SEc NE NE Sec. 19-7S-SE	Cypress	2659′	144	401′
Thomas S. Doran	Pankey Unit "A" #2	330′S 330′E NWc NE NE Sec. 19-7S-8E	Cypress	2668′	100	419′
Thomas S. Doran	Pankey Unit "B" #1	330′S 330′W NEc SE NE Sec. 19-7S-8E	Cypress	2671′	102	422′
Thomas S. Doran	Pankey Unit "A" #1	330′N 330′E SWc NE NE	Cypress	2669′	30	418′
George & Wrather Oil Co.	Pankey #2	330′S 330′W NEc NW Sec. 20-7S-8E	Cypress	2685′	110	402′
Thomas S. Doran	Wm. H. McKenzie #1	330′N 330′E SWc NW NW Sec. 20-7S-8E	Cypress	2653′	180	393′
Walter Duncan	Duckworth #2	330′S 330′E NWc SW NW Sec. 20-7S-8E	Cypress	2719′	221	409′
Clark & Clark	Lela G. Steele #1	330′S 330′W NEc NW SE Sec. 21-7S-8E	Aux Vases	2950′	25	390′
Paul S. Knight	C. R. Bennett, et al #2	330′S 330′W NEc SW NE Sec. 21-7S-8E	Aux Vases	3125′	67	386′
Inland Producers, Inc	P. Denham #1	330′S 330′E NWc NE Sec. 24-7S-8E	Aux Vases Benoist	2925′	200	-------
Murvin and Steber	E. M. Walters #1	330′S 330′W NEc NW Sec. 24-7S-8E	Aux Vases	3004′	168	429′
Inland Producers, Inc	P. Denham #2	990′N 330′W SEc NW NE Sec. 24-7S-8E	Aux Vases	2910′	200	407′
Murvin and Steber	L. Blades #1	330′S 330′W NEc NW NW Sec. 24-7S-8E	Benoist Aux Vases	2936′	100	437′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
GALLATIN COUNTY—Concluded						
W. C. McBride, Inc	Sarah Moore Well #1	330'S 330'E NWc NE NE Sec. 24-7S-8E	Benoist Aux Vases	2930'	140	431'
W. C. McBride, Inc	Sarah Moore Well #2	330'S 330'W NEc Sec. 24-7S-8E	Aux Vases Silurian Benoist	2967'	50	455'
W. C. McBride, Inc	Sarah Moore #3	330'N 330'E SWc NE NE Sec. 24-7S-8E	Aux Vases Benoist	2933'	120	435'
W. C. McBride, Inc	T. A. Moore #1	330'S 330'E NWc NW SE NE Sec. 24-7S-8E	Benoist	2917'	10	404'
Murvin & Steber	C. Awalt #1	330'S 330'E NWc NE SE Sec. 24-7S-8E	Benoist	2761'	300	394'
Murvin & Steber	F. J. Johnson #1	330'S 330'W NEc NW SE Sec. 24-7S-8E	Benoist	2900'	350	391'
Murvin & Steber	F. J. Johnson #2	330'N 330'W SEc NW SE Sec. 24-7S-8E	Benoist	3044'	120	387'
Murvin & Steber	F. J. Johnston #3	330'S 330'E NWc SW NE Sec. 24-7S-8E	Aux Vases	2932'	150	399'
Murvin & Steber	F. J. Johnston #4	330'S 330'W NEc SW NE Sec. 24-7S-8E	Benoist	2922'	200	394'
Murvin & Steber	E. Walters #2	330'N 330'W SEc NE NW Sec. 24-7S-8E	Aux Vases	2942'	240	411'
Sanders-Fye Drilling Co	C. Jann #1	330'N 330'E SWc SE NE Sec. 24-7S-8E	Benoist	2911'	1080	395'
Theodore G. Glass	Ivan West #1	330'S 330'E NWc SW NE Sec. 26-7S-8E	-------	-------	-------	-------
Skiles Oil Corp	Rister Heirs Comm. #1-A	366'N 366'W SEc Sec. 32-7S-8E	Tar Springs	1956'	25	396'
Coy Oil, Inc	Chas. N. Smith #1	330'S 330'W NEc Sec. 20-7S-9E	Cypress	2937'	25	392'
S. B. Griffith	Hugh K. Hale #2	330'S 990'W NEc NW NE Sec. 21-7S-9E	Cypress	2928'	-------	-------
S. B. Griffith	Hugh K. Hale #8	330'S 330'E NWc SE NW Sec. 21-7S-9E	Cypress	2677'	50	419'
S. B. Griffith	Hugh K. Hale #8-A	330'S 380'E NWc SE NW Sec. 21-7S-9E	Aux Vases	3089'	15	419'
S. B. Griffith	Hugh K. Hale #15	990'S 330'E NWc NE NW Sec. 21-7S-9E	Aux Vases	2964'	200	393'
S. B. Griffith	Hugh K. Hale #16	330'S 330'E NWc NE NW Sec. 21-7S-9E	Aux Vases	2984'	100	396'
Collins Bros. Oil Co	Boyd #1	330'N 330'W SEc NE SE Sec. 23-7S-9E	Tar Springs	2933'	45	384'
Collins Bros. Oil Co	Holland #1	330'S 330'W NEc SE SE Sec. 23-7S-9E	Tar Springs Aux Vases	3068'	75	381'
Sam Tipps	Loyisa K. Boyd #1	330'N 330'W SEc NW SE Sec. 23-7S-9E	Aux Vases	3002'	2	384'
Collins Bros. Oil Co	Hale #1	330'S 330'E NWc SW SW Sec. 24-7S-9E	Tar Springs	2315'	60	384'
Collins Bros. Oil Co	Hale #2	330'N 330'W SEc SW SW Sec. 24-7S-9E	Aux Vases Tar Springs	3057'	60	385'
Collins Bros. Oil Co	Hale #3	330'N 330'E SWc NW SW Sec. 24-7S-9E	Aux Vases	2953'	80	384'
Collins Bros. Oil Co	Raymond Sanders #1	330'N 330'W SEc NW Sec. 34-7S-9E	Cypress Tar Springs	3084'	50	378'
Clark and Clark	Hazel Questell #1	330'S 330'E NWc Sec. 19-7S-10E	Aux Vases	2936'	40	419'
Coy Oil, Inc	Joe Fromm et al #2	330'N 990'E SWc Sec. 31-7S-10E	Aux Vases	2902'	15	-------
Coy Oil, Inc	Essie Givens et al #1	330'N 330'E SWc SE Sec. 31-7S-10E	Aux Vases	2815'	15	372'
Crawford Producing Co	Kay #1	330'S 330'E NWc SE Sec. 34-7S-10E	Aux Vases	2779'	-------	350'
Crawford Producing Co	Kay #2	330'N 990'E SWc NW SE Sec. 34-7S-10E	Tar Springs	2765'	-------	349'
The Carter Oil Co	Stella Rister #8	330'N 330'W SEc NE NW Sec. 4-8S-8E	Curlew	2852'	46	365'

Kenneth Lindskog	J. C. Murphy #1	330′N 330′E SWc NW SW Sec. 1-8S-9E	Aux Vases	2835′	75	373′
McKelvy & Sipoha	Leslie M. Downen #1	330′N 330′E SWc NE SE Sec. 2-8S-9E	Aux Vases	2969′	15	--------
Alva C. Davis	Downen #2	405′N 330′E SWc SE SE Sec. 2-8S-9E	Aux Vases	2963′	20	369′
Mayhew Oil Co., Inc	Clarence Mills #2	330′S 330′W NEc SW SW Sec. 4-8S-9E	Aux Vases	3068′	95	380′
Mayhew Oil Co., Inc	Tim Rister #1	330′N 330′W SEc NE SE Sec. 5-8S-9E	Cypress	3097′	24	379′
Alva C. Davis	J. L. Downen #3-"A"	380′S 330′W NEc NW NE Sec. 11-8S-9E	Aux Vases	2806′	25	360′
The Texas Co	F. H. Williams #3	330′S 330′E NWc SE NE Sec. 11-8S-9E	Hardinsburg	2536′	12	--------
Alva C. Davis	J. L. Downen #3	330′S 330′W NEc NW NE Sec. 11-8S-9E	Cypress	2852′	20	368′
Eakle & Holder Petroleum Co	M. Westphilinger #1	330′N 330′E SWc SE SW Sec. 12-8S-9E	Cypress	2536′	--------	380′
Skiles Oil Corp	M. Lawler #7	330′N 330′E SWc NE Sec. 13-8S-9E	Cypress	2536′	24	372′
Pintozzi Oil Co	H. M. Fillingim #1	660′N 330′E SWc NW Sec. 22-8S-9E	Tar Springs	2209′	30	373′
W. C. McBride, Inc	William Drone #1	330′N 330′W SEc SW SW Sec. 36-8S-9E	Waltersburg	2862′	--------	361′
Natural Resources, Inc	Big Barn #32	990′N 990′E SWc Sec. 2-8S-10E	Cypress	2112′	16	349′
Brooks & Alldredge	Black #3	1065′N 330′W SEc NE Sec. 3-8S-10E	Pennsylvanian	1452′	8	349′
Coy Oil, Inc	Lillis Moye, et al #1-A	330′S 380′E NWc NE Sec. 6-8S-10E	Cypress	2800′	40	371′
C. E. Brehm Drilling & Producing	J. C. Lightner et al #4	210′N 380′W SEc NW NE Sec. 7-8S-10E	Hardinsburg	2487′	30	346′
The Carter Oil Co	M. G. Kerwin #32	330′N 330′E SWc NE SE Sec. 10-8S-10E	Cypress	2384′	20	340′
T. A. Ferrall	McGuire Heirs #2	990′S 990′W NEc SW Sec. 19-8S-10E	Waltersburg	2004′	25	366′
T. A. Ferrall	Phillips-McGuire #1	990′N 990′W SEc SW Sec. 19-8S-10E	Aux Vases	2750′	20	359′
T. A. Ferrall	McGuire Heirs #3	330′S 990′W NEc SW Sec. 19-8S-10E	Aux Vases	2825′	25	365′
Skelly Oil Co	Egyptian Tie & Timber #5	330′N 330′E SWc NE Sec. 21-8S-10E	Upper Cypress	2461′	50	348′
Eastern Petroleum Co	Leach et al #1	330′N 330′E SWc Frac. NE Sec. 22-8S-10E	Tar Springs	2079′	70	348′
Eastern Petroleum Co	Harliss Johnson #2	330′S 280′W NEc SW Sec. 22-8S-10E	Waltersburg	2099′	7	351′
Eastern Petroleum Co	Leach et al #1	390′S 330′E NWc Frac. SW NE Sec. 22-8S-10E	Waltersburg	2452′	30	349′
Tom K. Whittington	Arthur Brugger #1	330′N 330′E SWc Sec. 31-8S-10E	Aux Vases	2760′	20	359′
Lewis & Clemens	Arthur Drone #1	330′S 330′W NEc NW NW Sec. 31-8S-10E	Aux Vases	2768′	25	456′
Atlas Drilling Co	Randall #1	330′N 330′W SEc NE NE Sec. 1-9S-9E	Aux Vases	2964′	30	357′
Inland Oil Producing, Inc	School Trustees #1	330′S 990′E NWc NE SW Sec. 16-9S-9E	Cypress	2586′	--------	360′
HAMILTON COUNTY						
T. G. Jenkins	M. W. Hall #1	330′N 330′E SWc Sec. 20-3S-7E	McClosky	3420′	10	436′
Coy Oil, Inc	Birdie R. Gray, Trustee #1	2310′N 330′W SEc Sec. 1-1S-7E	Aux Vases	3293′	7	378′
Collins Bros. Oil Co	Becker Comm. #1	330′N 330′E SWc NE NE Sec. 14-1S-7E	Aux Vases	3469′	76	421′
Collins Bros. Oil Co	Rockett Comm. #3	330′N 330′W SEc SW SE Sec. 14-4S-7E	Renault	3292′	36	424′
Collins Bros. Oil Co	Delmar South #1	330′N 330′E SWc NW NE Sec. 17-1S-7E	Renault	3381′	6	384′
A. W. Cherry	Upton #1-A	330′S 330′W NEc SE SW Sec. 21-4S-7E	Aux Vases	3325′	240	435′
Collins Bros. Oil Co	Highlands Oil Co., "A" #2	330′S 330′W NEc NW NE Sec. 23-4S-7E	Renault Aux Vases	3313′	3	421′
Collins Bros. Oil Co	Thomas-Adams Comm. #1	330′S 330′E NWc Sec. 24-4S-7E	Renault	3347′	65	415′
H. V. Spires	W. A. Abbott #3	383′N 383′W SEc NE SW Sec. 27-5S-6E	Aux Vases	3072′	15	402′
Artnell Co	R. D. Nation #1	330′S 330′E NWc SW Sec. 9-5S-7E	Aux Vases	3553′	35	485′
Artnell Co	R. D. Nation #2	330′S 330′E NWc NE SW Sec. 9-5S-7E	Aux Vases	3385′	128	498′
Artnell Co	R. D. Nation #1	330′N 330′E SWc NE SW Sec. 9-5S-7E	Aux Vases	3562′	80	516′
Artnell Co	R. D. Nation #5	330′N 330′W SEc NW SW Sec. 9-5S-7E	Aux Vases	3335′	60	472′
Texas Co	R. M. Tree e #1	330′S 330′E NWc SE SW Sec. 9-5S-7E	Aux Vases	2433′	120	529′
Davis-Menhall Drilling Co., Inc	Ruble Hazel Metcalf et al #1	280′N 360′W SEc SW Sec. 31-5S-7E	O'Hara	3168′	30	396′
Fletcher F. Farrar	Clark Unit #1	330′N 330′W SEc SW SW Sec. 11-6S-5E	Aux Vases	3213′	75	534′
Gulf Refining Co	J. O. Clark #3	330′S 330′E NWc NE NW Sec. 14-6S-5E	Aux Vases	3238′	72	462′
Collins Bros. Oil Co	Tenny #1	330′N 330′W SEc NW SW Sec. 28-6S-5E	Aux Vases	3122′	15	582′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
HAMILTON COUNTY—Concluded						
C. E. Brehm Drilling & Producing Co.	Barner Lager et al #2	330'S 330'E NWc SE Sec. 10-6S-6E	Aux Vases	3093'	87	417'
Chris Pearson	Harrington #1	330'N 940'E SWc NE SE Sec. 11-6S-6E	Aux Vases	3072'	30	390'
Texas Co.	G. A. Davenport #4	330'S 330'W NEc SE Sec. 11-6S-6E	Aux Vases Benoist	3075'	50	388'
Stewart Oil Co.	Henry Cantreel #1	330'N 330'E SWc Sec. 18-6S-6E	Aux Vases	3238'	50	542'
Calvert Drilling, Inc.	Omer Matheny et al Comm. #1	330'S 330'W NEc SE Sec. 32-6S-6E	Aux Vases	3214'	422	470'
J. W. Menhall Drilling Co.	Raymond Harrawood #1-A	370'N 300'W SEc NE NW Sec. 19-6S-7E	Cypress	2801'	40	383'
C. E. Brehm Drilling & Producing	Susie McFarland et al #2	330'N 330'E SWc NW NW Sec. 4-7S-5E	Aux Vases	3216'	80	482'
C. E. Brehm Drilling & Producing	Susie McFarland et al #3	330'S 330'E NWc SW NW Sec. 4-7S-5E	Aux Vases	3217'	50	482'
C. E. Brehm Drilling & Producing	Casey #1	330'S 330'W NEc SE NE Sec. 5-7S-5E	Aux Vases	3216'	720	485'
C. E. Brehm Drilling & Producing	Casey #2	330'N 330'W SEc NE Sec. 5-7S-5E	Aux Vases	3222'	110	484'
C. E. Brehm Drilling & Producing	Casey #3	330'N 330'E SWc SE NE Sec. 5-7S-5E	Aux Vases	3221'	425	489'
C. E. Brehm Drilling & Producing	W. J. Waller Comm. #2	330'N 330'W SEc NE NE Sec. 5-7S-5E	Aux Vases	3237'	140	499'
Hoyt Lovelace	Angus Knight #1	330'S 330'W NEc NW SW Sec. 6-7S-5E	Aux Vases	3380'	10	556'
C. E. Brehm Drilling & Producing	George W. Hogan, Jr. et al #4	330'S 330'W NEc SE SW Sec. 9-7S-5E	Aux Vases	3365'	195	594'
C. E. Brehm Drilling & Producing	George W. Hogan, Jr. et al #3	330'N 330'W SEc SW Sec. 9-7S-5E	Aux Vases	3387'	48	624'
C. E. Brehm Drilling & Producing	Lillian Bundy #3	330'N 330'E SWc Sec. 9-7S-5E	Aux Vases	3291'	610	545'
C. E. Brehm Drilling & Producing	Lillian Bundy #4	330'N 330'W SEc SW SW Sec. 9-7S-5E	Aux Vases	3292'	590	542'
C. E. Brehm Drilling & Producing	Geo. W. Hogan Jr. et al #1	330'N 330'E SWc SE SW Sec. 9-7S-5E	Aux Vases	3319'	600	556'
C. E. Brehm Drilling & Producing	Geo. W. Hogan Jr. et al #2	330'S 330'E NWc SE SW Sec. 9-7S-5E	Aux Vases	3376'	600	621'
Ben J. Taylor & L. A. Schumacher	George W. Hogan #1	330'S 330'E NWc Sec. 16-7S-5E	Aux Vases	3285'	85	528'
C. E. Brehm Drilling & Producing	Anna Patterson #1	330'N 330'E SWc NE NW Sec. 16-7S-5E	Aux Vases	3311'	195	538'
C. E. Brehm Drilling & Producing	Thompson-Logan Comm. #2	330'S 330'E NWc SW NW Sec. 16-7S-5E	Aux Vases	3332'	25	584'
Calvert Drilling, Inc.	Hubert Howard #3	990'S 330'W NEc NW Sec. 16-7S-6E	Cypress & Aux Vases	3302'	85	389'
JASPER COUNTY						
Don Slape Drilling Co.	H. H. Harvey #1	330'N 330'W SEc SW SE Sec. 1-5N-9E	McClosky	3000'	650	532'
Perry Fulk	Ollie Davidson #1	184½'N 990'W SEc NE Sec. 1-5N-9E	Rosiclare	2982'	107	534'
Don Slape Drilling Co.	C. E. Bower #1	470'N 564'E SWc NE Sec. 1-5N-9E	McClosky	3036'	20	545'
Don Slape	R. Calvert #1	932'N 868'W SEc NE Sec. 1-5N-9E	McClosky	2982'	250	543'
Don Slape	R. Calvert #2	249'S 881'W NEc Sec. 1-5N-9E	McClosky	3014'	250	556'
Don Slape	H. H. Harvey #2	330'S 330'W NEc SW SE Sec. 1-5N-9E	McClosky	2983'	100	532'
Don Slape	H. H. Harvey #3	330'N 660'W SEc NW SE Sec. 1-5N-9E	McClosky	2993'	25	--------
Don Slape	H. H. Harvey #4	330'N 330'E SWc NE SE Sec. 1-5N-9E	McClosky	2978'	250	528'
Don Slape	H. H. Harvey #5	330'S 330'E NWc NE SE Sec. 1-5N-9E	McClosky	2982'	150	527'
Don Slape	H. H. Harvey #6	330'S 330'W NEc NW SE Sec. 1-5N-9E	McClosky	2984'	150	530'
Don Slape	J. O. Manning #1	1304'N 1040'W SEc NE Sec. 1-5N-9E	McClosky	2987'	225	560'

Don Slape	J. O. Manning #2	867'S 931'W NEc Sec. 1-5N-9E	McClosky	3655'	100	551'
Don Slape	J. O. Manning #3	558'N 1040'W SEc NE Sec. 1-5N-9E	McClosky	2995'	175	558'
Don Slape	J. O. Manning-C. E. Bower Comm. #1	867'S 1650'W NEc Sec. 1-5N-9E	McClosky	2988'	200	547'
John M. Zanetis	Kelley #1	330'N 330'E SWc SE SE Sec. 1-5N-9E	Rosiclare	2976'	612	533'
John M. Zanetis	P. Kelley #2	330'S 330'E NWc SE SE Sec. 1-5N-9E	Rosiclare	2978'	350	535'
Harold Brinkley	Hines-Ochs Comm. #1	990'N 990'E SWc Sec. 4-5N-10E	Aux Vases	2740'	45	484'
John M. Zanetis	G. Keller #1	330'N 330'W SEc NW Sec. 5-5N-10E	Salem	3309'	275	509'
Kingwood Oil Co.	J. W. McConnell #1	330'S 330'E NWc SW Sec. 6-5N-10E	Rosiclare	3007'	78	540'
Gulf Refining Co.	Della Harvey #3	330'S 330'W NEc NW NE Sec. 12-5N-9E	Rosiclare	2991'	264	531'
Gulf Refining Co.	Della Harvey #4	330'N 330'W SEc NW NE Sec. 12-5N-9E	Rosiclare O'Hara	2975'	94	532'
Gulf Refining Co.	Della Harvey #5	330'S 330'E NWc SE NE Sec. 12-5N-9E	Rosiclare	2966'	22	527'
John M. Zanetis	Charles Harvey #1	330'S 330'E NWc NE NE Sec. 12-5N-9E	Rosiclare	2958'	438	521'
John M. Zanetis	Charles Harvey #2	330'N 330'E SWc NE NE Sec. 12-5N-9E	Rosiclare	2958'	145	529'
Gulf Refining Co.	Della Harvey #1	330'N 330'E SWc NE Sec. 12-5N-9E	Rosiclare	2972'	190	526'
Gulf Refining Co.	Della Harvey #2	330'S 330'E NWc SW NE Sec. 12-5N-9E	Rosiclare	2993'	32.5	527'
John Zanetis	Sam Brown #B-1	330'S 330'E NWc SW SE Sec. 12-5N-9E	Rosiclare	2980'	144	526'
John Zanetis	Earl Heady #1	330'S 330'W NEc SW Sec. 12-5N-9E	Rosiclare	2986'	144	525'
John Zanetis	Heady-Parenty Comm. #1	330'N 330'W SEc SE NE Sec. 12-5N-9E	Rosiclare	2980'	146	523'
John Zanetis	Kittle Comm. #1	660'N 330'W SEc SW Sec. 12-5N-9E	Rosiclare	2977'	150	523'
Don Slape Drilling Co.	L. Thomas #1	330'N 330'E SWc NW SE Sec. 12-5N-9E	McClosky	2980'	780	--------
Don Slape Drilling Co.	L. Thomas #2	330'S 330'E NWc SE Sec. 12-5N-9E	McClosky	2991'	500	--------
John M. Zanetis	Earl Heady #2	330'N 330'W SEc NW Sec. 12-5N-9E	Rosiclare	2944'	48	525'
John M. Zanetis	W. C. Oursler #1	330'S 330'W NEc SE NW Sec. 12-5N-9E	Rosiclare	2995'	15	527'
John M. Zanetis	M. Harvey #B-1	330'S 330'E NWc NE Sec. 13-5N-9E	McClosky	3003'	26	522'
Pure Oil Co.	John W. Honey A #5	660'S 660'E NWc SW NE Sec. 17-5N-10E	Salem	4558'	100	490'
Pure Oil Co.	S. A. Beavers #4	668'S 670'W NEc Sec. 18-5N-10E	McClosky	2840'	--------	480'
Hunt & Associates Properties	Hunt #1	249'N 881'W SEc Sec. 36-6N-9E	McClosky	2998'	212	552'
Pure Oil Co.	Matilda Ritz B #2	660'S 330'W NEc NW NE Sec. 16-6N-10E	Aux Vases	2860'	64	564'
John M. Zanetis	B. Acklin #1	330'S 330'W NEc SE NW Sec. 17-6N-10E	Aux Vases	2760'	88	426'
John M. Zanetis	J. C. Clapp #1	330'N 330'W SEc SW Sec. 32-6N-10E	Salem	3315'	125	518'
Ralph Harrell & Vaughn Brown	Herbert Kitchen #1	330'N 330'W SEc Sec. 1-7N-10E	McClosky	2410'	75	537'
Skiles Oil Corp.	J. A. Ochs #1	330'S 990'E NWc NE SW Sec. 28-7N-10E	Rosiclare	2853'	15	532'
M. M. Spickler & G. B. Kiser Oil Co., Inc.	Farthing #1	660'N 1230'E SWc SE Sec. 36-7N-10E	McClosky	2644'	4	498'
Jas. Hockman	C. A. Miles #1	330'S 330'E NWc Sec. 18-5N-10E	Aux Vases	2922'	48	510'
JEFFERSON COUNTY						
Leo Dare	L. D. Miller #1	330'N 330'E SWc SE SW Sec. 19-1S-1E	Petro	1068'	16	537'
Leo Dare	L. D. Miller #3	330'S 330'E NWc NE NW Sec. 30-1S-1E	Pennsylvanian	1062'	40	536'
Gulf Refining Co.	M. E. Hunt #2	330'S 330'E NWc SW SW Sec. 13-1S-3E	Rosiclare McClosky	2763'	43	555'
E. Homer Jahn	Avery Minor Com. #1	330'S 330'W NEc SW SE Sec. 23-1S-3E	Rosiclare	2697'	112	559'
Perrine & Perrine	Ed Wilson #1	330'N 330'W SEc NW NW Sec. 24-1S-3E	Rosiclare	2690'	45	543'
E. Homer Jahn	Carter-Tate #1	330'S 330'E NWc NE NE Sec. 26-1S-3E	Rosiclare	2720'	26	555'
Walter Duncan	J. H. Sumner #1	330'N 355'E SWc NE SE Sec. 23-1S-3E	Rosiclare	2805'	98	548'
John F. Dunnill	C. D. Harris #1	330'N 330'E SWc SE NE Sec. 27-1S-3E	McClosky	2816'	40	586'
John F. Dunnill	Roy G. McDaniel #1	330'N 330'E SWc NE Sec. 27-1S-3E	McClosky	2810'	300	586'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
JEFFERSON COUNTY—Concluded						
Skiles Oil Corp.	Lee Bradford #1	330′N 330′E SWc SE SW Sec. 14-1S-4E	O'Hara Aux Vases	2947′	10	--------
Magnolia Petroleum Co.	Eubank-Winesburgh Unit #1	330′S 330′E NWc NW SE SE Sec. 35-2S-1E	Rosiclare	2122′	4	464′
Fletcher F. Farrar	Wood Unit #1	660′S 330′W NEc NW SE Sec. 13-2S-4E	Aux Vases	2957′	25	505′
W. H. Hussmann	Aud Hirons #2	330′N 330′W SEc NE SE Sec. 3-3S-2E	Benoist	2581′	8	--------
W. H. Hussmann	Aud Hirons #3	330′N 330′W SEc Sec. 3-3S-2E	Aux Vases	2652′	18	--------
Thomas S. Doran	Flannigan #2	330′N 330′E SWc NE NE Sec. 10-3S-2E	Aux Vases	2667′	65	459′
McGaw & Hughes Petroleum Co.	T. E. Daniels #1	990′N 330′E SWc Sec. 8-3S-3E	Aux Vases	2672′	150	437′
Magnolia Petroleum Co.	Curtis H. Adams #2	330′N 330′W SEc NE NE Sec. 21-3S-3E	McClosky	2925′	90	439′
Texas Co.	W. W. Martin #2	330′N 330′W SEc NW Sec. 21-3S-3E	Aux Vases	2802′	42	428′
Eber McEndree	Goff #1	330′S 330′E NWc SW SW Sec. 22-3S-3E	Aux Vases	2728′	75	439′
Edward T. Robinson	Alva Estes et al #1	330′S 330′E NWc NE SW Sec. 22-3S-3E	Aux Vases	2792′	20	467′
Albert W. Gentles	Todd P. Ward #2-A	330′N 330′W SEc SW Sec. 27-3S-3E	Aux Vases	2738′	30	466′
J. A. Matthews	Willmore Comm. #2	330′S 330′W NEc NW SW Sec. 27-3S-3E	Aux Vases	2765′	150	497′
J. A. Matthews	Willmore Comm. #3	330′N 455′E SWc NW SW Sec. 27-3S-3E	Aux Vases	2790′	50	509′
F. L. Strickland	Atwood 1-B	330′N 330′W SEc NW Sec. 27-3S-3E	Aux Vases	2780′	50	508′
F. L. Strickland	Atwood B-2	330′S 330′E NWc SE NW Sec. 27-3S-3E	Pennsylvanian	265′	2,000,000 (gas)	--------
F. L. Strickland	Ida May Johnson #1	330′N 330′E SWc NE NW Sec. 27-3S-3E	Aux Vases	2775′	80	484½′
F. L. Strickland	McKenzie #2	330′S 330′E NWc Sec. 27-3S-3E	Aux Vases	2745′	70	456′
F. L. Strickland	E. M. Randolph #3	330′S 330′E NWc SW SW Sec. 27-3S-3E	Aux Vases	2759′	110	507′
Frank L. Strickland	T. P. Ward #2	330′S 330′E NWc NE SW Sec. 27-3S-3E	Aux Vases	2774′	200	505′
F. L. Strickland	T. P. Ward #3	330′N 330′W SEc NE SW Sec. 27-3S-3E	Aux Vases	2776′	10	490.5′
F. L. Strickland	McKenzie #1	330′S 330′W NEc NW NW Sec. 27-3S-3E	Aux Vases	2751′	51	462′
John E. Carlson	S. J. Hicks #1	330′N 330′W SEc SW SE Sec. 28-3S-3E	Aux Vases	2760′	120	--------
Texas Co.	State Game Preserve A-#4	330′S 330′W NEc SE NW Sec. 28-3S-3E	Aux Vases Rosiclare	2889′	50	474′
Texas Co.	State Game Preserve A-#5	330′S 330′E NWc NE Sec. 28-3S-3E	Aux Vases	2891′	52	494′
Texas Co.	Wilkerson Comm. #2	330′N 330′W SEc NE SE Sec. 28-3S-3E	Aux Vases O'Hara	2824′	50	493′
John E. Carlson	Willmore #1	330′S 330′W NEc NW NE Sec. 33-3S-3E	Aux Vases	2850′	80	--------
Texas Co.	D. Baker NCT-1 #3	330′N 330′W SEc NE Sec. 33-3S-3E	Aux Vases	2886′	62	481′
Texas Co.	H. V. Smith #3	330′S 330′E NWc NE NE Sec. 33-3S-3E	Aux Vases	2759′	52	483′
Keystone Oil Co.	Paul Mace #1-B	330′S 330′E NWc SW Sec. 34-3S-3E	Aux Vases	2769′	80	461′
Keystone Oil Co.	Paul Mace #2-B	330′N 330′E SWc NW SW Sec. 34-3S-3E	Aux Vases	2736′	237	456′
F. L. Strickland	E. M. Randolph #7	330′S 330′E NWc SE NW Sec. 34-3S-3E	Aux Vases	2824′	55	450′
F. L. Strickland	E. M. Randolph #8	990′S 990′E NWc NE NW Sec. 34-3S-3E	Aux Vases	2739′	185	457′
F. L. Strickland	E. M. Randolph #9	660′N 330′E SWc NE Sec. 34-3S-3E	Aux Vases	2730′	25	444½′

The Texas Co.	H. V. Smith Comm. #2	330′N 330′W SEc NW NW Sec. 34-3S-3E	O'Hara & Aux Vases	2783′	30	473′
F. L. Strickland	E. M. Randolph #10	330′S 330′W NEc SE NW Sec. 34-3S-3E	Aux Vases	2740′	120	453′
F. L. Strickland	E. M. Randolph #12	330′S 330′W NEc NW Sec. 34-3S-3E	Aux Vases	2748′	120	463′
LAWRENCE COUNTY						
Francis L. Beard	G. L. Hopkins #1	330′S 330′W NEc NW NE Sec. 16-2N-11W	Waltersburg	1900′	25	407′
John M. Zanetis	Leathers #2	330′S 330′W NEc SW SE Sec. 19-2N-11W	Benoist	1850′	60	412′
Harold W. Brinkley	D. L. Moody #1	330′N 330′W SEc NE Sec. 19-2N-11W	Benoist	1852′	120	418′
Ervin Drilling Co.	W. C. Garvey #2	330′S 787′W NEc Sec. 8-2N-11W	Aux Vases	1769′	14	475′
John M. Zanetis	E. Lyons #1	330′N 330′W SEc SW NW Sec. 19-2N-11W	Benoist	1851′	54	423′
Breuer-Robison Oil Co.	Burns #1	330′N 330′E SWc Sec. 17-2N-11W	O'Hara Benoist	2023′	2	421′
Howje-Kim Oil Co.	Lyons #5	330′S 330′W NEc NW SE Sec. 19-2N-11W	Benoist	1850′	35	
John M. Zanetis	Haycock Comm. #1	927′S 1154′E NWc SE Sec. 20-2N-11W	Benoist	1865′		
Harold Brinkley	O. Pepple #3	990′N 330′E SWc NW Sec. 20-2N-11W	Benoist	1954′	45	419′
Harold Brinkley	O. Pepple #2	380′N 330′W SEc SW NW Sec. 20-2N-11W	Benoist	1864′	50	422′
Illinois Oil Co.	Lyons #5	330′S 490′W NEc NW SW Sec. 20-2N-11W	Benoist	1853′	6	423′
Raymond Brinkley	All States Life Ins. Co. #1	330′N 330′W SEc NW NW Sec. 22-2N-11W	Benoist	1779′	30	408′
John M. Zanetis	R. Hoh #1	330′S 330′E NWc SW Sec. 24-2N-12W	Benoist	2081′	35	
John M. Zanetis	Albert Hershey #1-A	370′S 970′E NWc SW SE Sec. 27-2N-12W	Benoist	2014′	16	
T. & H. Corp.	Verne A. Deckard et al #1	1213.08′S 350′E NWc NE Sec. 29-2N-11W	Benoist	1865′	10	442′
Earle B. Reynolds	Leroy Leighty Comm. #1	330′N 330′E SWc NE Sec. 12-2N-13W	Benoist	2391′		
Cities Service Oil Co.	Beal #5	330′N 330′W SEc SW NE Sec. 13-2N-13W	McClosky Benoist	2471′	250	455′
N. V. Duncan Estate	Dora Hallen #1	330′S 330′W NEc SW SE Sec. 13-2N-13W	Benoist	2285′	100	
N. V. Duncan	Robinson #2	330′S 330′E NWc NE SE Sec. 13-2N-13W	Benoist	2275′	100	458′
George & Wrather Oil Co.	Wirht-Beal-Thompson #2	330′N 330′E SWc NW SE Sec. 13-2N-13W	Benoist	2287′	185	455′
Estate of N. V. Duncan	Dora Hallen #2	330′S 330′E NWc NW SW Sec. 13-2N-13W	Benoist	2310′	100	453′
Earle B. Reynolds	Wirth #1	330′N 330′W SEc NW SE Sec. 13-2N-13W	Benoist	2256′		
Earle B. Reynolds	J. H. Wirth #2	330′S 330′W NEc NW SE Sec. 13-2N-13W	Benoist	2259′		
Earle B. Reynolds	J. E. Wirth #3	390′S 330′W NEc NW SE Sec. 13-2N-13W	McClosky	2474′	5	
Allen Bros.	Buchanan A1	330′S 330′E NWc SE SE Sec. 11-2N-12W	Pennsylvanian	1256′	8	436′
G. C. Schoonmaker	Virgil Deckard #B-1	330′N 430′W SEc NE Sec. 22-2N-12W	Cypress	1872′		488′
Sand Barren Leases	John Hovermale #4	330′N 665′E SWc NE Sec. 23-2N-12W	Watersburg	1430′	25	429′
Illinois Oil Co.	S. R. Putnam #4	455′N 330′E SWc SE NE Sec. 23-2N-12W	Benoist	2010′	100	426′
J. S. Young, Jr.	Michael E. Murphy #1	330′S 330′W NEc NW NE Sec. 3-2N-12W	Bridgeport	996′	8	
Allen Bros.	Gillespie #1A	330′S 330′W NEc SW SE Sec. 11-2N-12W	Pennsylvanian	1252′	15	
J. L. Harper	Mary Milligan-Elsie McConnell #1	330′S 330′W NEc NW SE Sec. 18-2N-12W	Buchanon	2207′	50	462′
N. V. Duncan	R. E. Schrader #1	330′S 330′E NWc SE SE Sec. 13-2N-13W	McClosky	2340′	50	
N. V. Duncan Estate	E. R. Robinson #1	330′N 330′E SWc NE SE Sec. 13-2N-13W	Benoist	2283′	100	457′
Walter Duncan	L. C. David #4	330′S 330′E NWc SW SE Sec. 8-3N-11W	McClosky	1650′	426	
Partlow & Cochonour	Sandlin #1	990′S 330′W NEc NW Sec. 19-3N-11W	Cypress	1918′	27	513′
W. E. Bailor	Wayne Leightly Estate #6	990′N 330′W SEc Sec. 19-3N-11W	Aux Vases	1806′	70	455′
W. E. Bailor	Leightly "B" Comm. #1	330′N 330′W SEc NE SE Sec. 19-3N-11W	Benoist	1728′	40	
W. E. Bailor	Sandlin-Akin Comm. #1	990′N 990′E SWc SE Sec. 19-3N-11W	Cypress	1619′	160	
W. E. Bailor	Wayne Leightly Estate #5	990′N 330′E SWc Sec. 20-3N-11W	Cypress	1624′	11	459′
W. E. Bailor	Leighty-Ackman Comm. #5	140′S 160′E NWc SW NE SW Sec. 20-3N-11W	Cypress	1880′	16	479′
William L. McKenzie	John Ackman #1	430′N 330′E SWc NW Sec. 29-3N-11W	Cypress	1675′		465′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
LAWRENCE COUNTY—Concluded						
Frank Lyons	Biehl and Biehl #1	294'S 330'W NEc NW SE Sec. 29-3N-11W	Rosiclare	1856'	30	414.9'
The Ohio Oil Co.	James Lewis a/c 1 #29	311'S 200'E NWc NE NE Sec. 5-3N-12W	Paint Creek Kirkwood	1482'	47	457'
The Ohio Oil Co.	J. W. Highfield #4	330'N 330'W SEc NW SE Sec. 6-3N-12W	McClosky	1815'	6	522'
The Ohio Oil Co.	J. R. King a/c 1 #51	330'N 330'E SWc SE NE Sec. 6-3N-12W	Bridgeport	1000'	22	505'
The Ohio Oil Co.	J. R. King a/c 1 #52	330'S 330'E NWc NE SE Sec. 6-3N-12W	Bridgeport	1009'	18	503'
Charles Zanetis	Fyffe #1	33'N 32'W SEc Lot #6 of A. J. Warner's Addition to the City of Bridgeport Sec. 8-3N-12W	Bridgeport	932'	12	--------
Evansville Drilling Co.	Shepherd & Sturman #1	330'N 658'W SEc NW SW Sec. 10-3N-12W	McClosky	1940'	--------	--------
Elvis O. Lurker	J. A. Seed #1-B	201'N 330'W NEc SE Sec. 10-3N-12W	Benoist	1645'	36	--------
John M. Zanetis	Carlson Heirs #3	990'S 330'E NWc NE Sec. 15-3N-12W	Cypress	1850'	65	434'
Frank Curts	England #24	492'S 653'E NWc SW SE Sec. 16-3N-12W	Buchanon	1292'	25	--------
Elvis O. Lurker	Gillespie Heirs	330'S 330'E NWc NE NE Sec. 22-3N-12W	Cypress	1604'	75	475'
Paco Petroleum Corp.	M. L. Calvert #1	330'S 330'W NEc SW NE Sec. 22-3N-12W	Cypress	1617'	59	488'
Elvis O. Lurker	Gillespie Heirs #4	330'N 330'W SEc NW NE Sec. 22-3N-12W	Cypress Jackson	1592'	80	--------
Gaines & Brinkley	Watson #1	330'S 330'W NEc SE Sec. 30-3N-12W	Benoist	2015'	25	493'
N. W. Welsh	Roy Berkshire #1	330'N 330'E SWc SE NE Sec. 30-3N-12W	Benoist	1998'	18	483'
Darrel S. Huddleston	G. L. Vandermark #2	330'S 699'E NWc NE NW Sec. 34-3N-12W	Jackson	1670'	13	--------
Francis L. Beard	Jenner #2-A	330'S 330'E NWc SW SE Sec. 36-3N-12W	Bridgeport	958'	15	--------
D. J. Houchins	Clarence W. Staninger #2	330'S 330'W NEc SW SE Sec. 14-3N-13W	Benoist	2096'	30	502'
N. B. Smith	L. C. Waggoner #1	330'N 330'E SWc NW NW Sec. 6-4N-12W	Benoist	1668'	100	438'
N. B. Smith	O. Updike #1	330'S 330'E NWc SW NW Sec. 6-4N-12W	Benoist	1571'	25	438'
N. B. Smith	L. C. Waggoner #2	330'S 330'E NWc Sec. 6-4N-12W	Benoist	1560'	50	--------
R. A. Harris	Roberts #1	330'N 330'E SWc NE SW Sec. 6-4N-12W	Benoist	436'	21	--------
Nation Drilling Co.	Bolles et al #1	330'S 330'E NWc Sec. 17-4N-12W	Paint Creek Cypress	1840'	17½	428'
The Ohio Oil Co.	Dee Vanderhoof #1	330'S 330'E SWc NE SW Sec. 17-4N-12W	Kirkwood & Paint Creek	1589'	1	435'
The Ohio Oil Co.	John Bolles a/c #13	333'S 330'E NWc SW Sec. 17-4N-12W	Kirkwood Paint Creek	1526'	1	435'
The Ohio Oil Co.	Dee Vanderhoof #2	330'S 330'E NWc NE SW Sec. 17-4N-12W	Kirkwood & Paint Creek	1607'	1	435'
The Ohio Oil Co.	John Bolles a/c 2 #14	343'S 330'W NEc NW SW Sec. 17-4N-12W	Kirkwood Paint Creek	1562'	1	437'
The Ohio Oil Co.	M. E. Ridgley a/c 2 #2	330'N 330'W SEc NW SW Sec. 17-4N-12W	Kirkwood Paint Creek	1543'	12	436'
The Ohio Oil Co.	M. E. Ridgley a/c 2 #4	330'N 330'E SWc NW SW Sec. 17-4N-12W	Kirkwood Paint Creek	1506'	14	435'
Nation Drilling Co.	Minnie Wright #1	330'N 330'E SWc NW NW Sec. 17-4N-12W	Benoist	1668'	50	436'

The Ohio Oil Co.	W. Westall a/c 1 #16	330'S 330'W NEc SW SW Sec. 17-4N-12W	Kirkwood Paint Creek	1521'	48	440'
The Ohio Oil Co.	John Bolles a/c 2 #11	330'S 330'E NWc NE SE Sec. 18-4N-12W	Kirkwood Paint Creek	1459'	3	436'
The Ohio Oil Co	John Bolles a/c 2 #12	330'S 330'W NEc SE Sec. 18-4N-12W	Kirkwood Paint Creek	1489'	½	437'
The Ohio Oil Co.	J. H. Klingler #22	330'N 330'W SEc SW NE Sec. 18-4N-12W	Aux Vases	3126'	--------	--------
The Ohio Oil Co.	M. E. Ridgley a/c 2 #5	330'N 330'E SWc NE SE Sec. 18-4N-12W	Kirkwood Paint Creek	1442'	3	437'
The Ohio Oil Co.	M. E. Ridgley a/c #6	330'N 330'W SEc NE SE Sec. 18-4N-12W	Kirkwood Paint Creek	1464'	1	437'
The Ohio Oil Co.	Perry King a/c #82	330'S 330'W NEc NW SE Sec. 18-4N-12W	Kirkwood	1435'	2	436'
Nation Oil Co	Verus Wright #1	330'N 330'W SEc SE SW SW Sec. 28-4N-12W	Cypress	1622'	50	484'
Nation Oil Co	Verus Wright #2	330'S 330'E NWc SW SW Sec. 28-4N-12W	Cypress	1851'	30	488'
Nation Oil Co	Verus Wright #6	450'N 330'E SWc Sec. 28-4N-12W	Cypress Jackson Paint Creek	1860'	48	504'
Nation Drilling Co	John H. Hankins #1	330'S 330'E NWc SW NW Sec. 28-4N-12W	Cypress	1794'	25	483'
The Ohio Oil Co.	Oliver Baltzell #24	330'S 330'W NEc SW NE Sec. 30-4N-12W	St. Louis	1735'	20	455'
Evansville Drilling Co.	McCleave #1	165'N 660'W SEc SW NE Sec. 31-4N-12W	Aux Vases	1700'	22	--------
Evansville Drilling Co.	McCleave 1-A (Twin)	165'N 610'W SEc SW NE Sec. 31-4N-12W	Bridgeport	990'	10	--------
The Ohio Oil Co.	J. R. Middagh #26	330'N 665'W SEc NE SW Sec. 32-4N-12W	Bridgeport	1040'	3.5	497'
The Ohio Oil Co.	J. T. Griggs a/c #74	345'S 330'W NEc SE NE Sec. 32-4N-12W	Kirkwood & Paint Creek	1580'	1	466'
Nation Oil Co	Harley R. Neal #3	330'N 330'E SWc NW NE Sec. 33-4N-12W	Cypress	1947'	5	459'
The Ohio Oil Co.	Effie Eshelman #9	335'S 420'E NWc SW NW Sec. 33-4N-12W	Kirkwood & Paint Creek	1618'	10	474'
The Ohio Oil Co.	Effie Eshelman #10	260'N 245'E SWc SW NW Sec. 33-4N-12W	Kirkwood & Paint Creek	1858'	13	463'
Howard E. Walton	Lucy B. Litherland #1	330'N 330'E SWc NE NW Sec. 33-4N-12W	Cypress	1891'	44	493'
Howard E. Walton	Lucy B. Litherland #2	330'S 330'E NWc NE NW Sec. 33-4N-12W	Cypress	1654'	65	487'
Sapphire American Petroleum, Inc	C. Stoltz #04	330'N 330'W SEc NE SE Sec. 2-4N-13W	Rosiclare	1740'	20	428'
Skiles Oil Corp	W. G. Bunyan #1	330'N 330'W SEc NE NE Sec. 1-4N-13W	Cypress	1654'	15	437'
Sapphire American Petroleum, Inc	Roy Jacobs #0-4	330'N 330'W SEc NE Sec. 2-4N-13W	Rosiclare	1750'	120	426'
Frank T. Whittinghill, Jr	Cora Sheridan et al #0-1	330'N 330'W SEc NW Sec. 2-4N-13W	Benoist	1820'	60	443'
J. L. Harper	Cassil #1	330'N 330'W SEc SW NE Sec. 36-4N-13W	Cypress	1732'	--------	--------
Breuer-Robison Oil Co	Chas. B. Nuttall #1	330'S 330'E NWc SW NW Sec. 30-5N-12W	Benoist	1646'	40	423'
N. B. Smith	Updike #A-1	330'N 330'E SWc Sec. 31-5N-12W	Benoist	1570'	20	440'
George & Wrather Oil Co	Smith-Johnson #7	480'S 450'W NEc SE NE Sec. 25-5N-13W	Benoist	1659'	50	--------
George & Wrather Oil Co	Nuttall #5	340'N 375'E SWc NW SW Sec. 25-5N-13W	Benoist	1645'	7	442'
George & Wrather Oil Co	N. J. Updike "D" #1	330'S 350'W NEc NW NW Sec. 36-5N-13W	Benoist	1631'	2	440'
George & Wrather Oil Co	Nuttall #4	330'S 330'W NEc NW SW Sec. 25-5N-13W	Benoist	1633'	6	440'
George & Wrather Oil Co	Smith "A" #8	310'S 310'W NEc SW SW Sec. 25-5N-13W	Benoist	1642'	60	441'
George & Wrather Oil Co	Smith "A" #9	330'N 330'E SWc Sec. 25-5N-13W	Benoist	1634'	1	440'
George & Wrather Oil Co	W. E. Updike "A" #3	340'N 330'E SWc SE SW Sec. 25-5N-13W	Benoist	1639'	1	440'
George & Wrather Oil Co	Rodrick #3	330'N 330'E SWc SE SE Sec. 26-5N-13W	Benoist	1648'	4	437'
George & Wrather Oil Co	N. J. Updike "D" #4	400'N 330'E SWc NE NE Sec. 35-5N-13W	Benoist	1642'	7	--------
George & Wrather Oil Co	N. J. Updike "E" #3	330'S 330'W NEc Sec. 35-5N-13W	Benoist	1644'	--------	438'
George & Wrather Oil Co	N. J. Updike "D" #2	330'N 360'E SWc SW NW NW Sec. 36-5N-13W	Benoist	1625'	--------	440'
George & Wrather Oil Co	S. S. Updike "C" #1	330'N 360'E SWc NE NW Sec. 36-5N-13W	Benoist	1679'	--------	440'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
LASALLE COUNTY						
A. C. Otto	Swensen #1	530′N 445′E SWc NE Sec. 1-36N-5E	Mt. Simon	1680′	--------	667′
LEE COUNTY						
John Stelle Associates	W. P. Child #1	330′N 330′W SEc Sec. 14-19N-9E	Silurian	442′	--------	--------
LIVINGSTON COUNTY						
Dickinson Oil Co., Inc.	Larson #1	990′N 330′E SWc NW SW Sec. 4-29N-5E	Pennsylvanian	800′	--------	308′
MARION COUNTY						
W. L. Bryant	Langewisch #1	330′S 416′W NEc SW¼ NE¼ Sec. 4-1N-1E	Pennsylvanian	804.5′	25	415′
Dewey Stinson	Lasiter Comm. #1	331.5′N 907′E SWc NW Sec. Frac. 30-1N-1E	Petroleum	792′	3	--------
E. C. Reeves	Purcell-Justice-Kell #1	330′N 330′E SWc SE NW Sec. 3-1N-2E	Rosiclare	2129′	5	535′
E. C. Reeves	Guymon #2	330′N 990′E SWc SE SW Sec. 3-1N-2E	Rosiclare	2156′	40	563′
The Texas Co.	Bryant-Snider Unit #1	330′S 330′W NEc SW NE Sec. 9-1N-2E	Rosiclare	2050′	74	516′
E. C. Reeves	Kell Heirs & Farthing #1 Community	328′S 330′W NEc SW SW Sec. 10-1N-2E	Rosiclare	2147′	150	551′
E. C. Reeves	Kell Heirs & Farthing #2 Community	328′S 990′W NEc SW SW Sec. 10-1N-2E	Rosiclare	2137′	200	546′
Ervin Drilling Co.	R. B. Garren #1	330′N 330′E SWc NW SE Sec. 10-1N-2E	Rosiclare	2152′	16	554′
A. B. Potter	Roy B. Garren #1	330′N 330′E SWc NE SW Sec. 10-1N-2E	Rosiclare	2137′	60	560.09′
A. B. Potter	Roy B. Garren #2	330′N 990′E SWc NE SW Sec. 10-1N-2E	Rosiclare	2161′	40	550.75′
Ervin Drilling Co.	R. B. Garren #2	330′S 330′E NWc SE Sec. 10-1N-2E	Rosiclare	2140′	60	564′
A. B. Potter	R. B. Garren #3	330′S 330′E NWc NE¼ SW¼ Sec. 10-1N-2E	Rosiclare	2143′	20	553.51′
E. C. Reeves	Kell Heirs #10	330′N 330′W SEc NW SW Sec. 10-1N-2E	Rosiclare	2144′	80	550′
E. C. Reeves	Kell Heirs #20	330′S 330′W NEc NW SW Sec. 10-1N-2E	Rosiclare	2139′	60	535′
E. C. Reeves	Kell Heirs #30	330′N 990′W SEc NW SW Sec. 10-1N-2E	Rosiclare	2121′	200	533′
C. R. Winn	Quinn #2	330′S 990′E NWc SE SW Sec. 10-1N-2E	Rosiclare	2152′	45	552′
Nick Babare	Farthing-Mt. Moriah Church #2	330′N 330′W SEc SW SW Sec. 10-1N-2E	Rosiclare	2149′	7	548′
Nick Babare	Farthing #1	330′N 330′E SWc Sec. 10-1N-2E	Rosiclare	2125′	280	539′
Ervin Drilling Co.	Raccoon School #1	460′N 460′E SWc SW SW Sec. 15-1N-2E	Rosiclare	2089′	200	--------
T. M. Conrey	E. Luttrell #3	330′S 330′W NEc NW NW Sec. 15-1N-2E	Rosiclare	2150′	250	--------
T. M. Conrey	E. Luttrell #1	330′N 330′E SWc NW NW Sec. 15-1N-2E	Rosiclare	2123′	60	535′
T. M. Conrey	E. Luttrell #2	330′S 330′E NWc Sec. 15-1N-2E	Rosiclare	2139′	110	--------
Ervin Drilling Co.	C. Brinkerhoff #2	330′N 330′E SWc NW SW Sec. 15-1N-2E	Aux Vases	2019′	25	549′
Ervin Drilling Co.	C. Brinkerhoff #4	860′N 460′E SWc Sec. 15-1N-2E	Rosiclare	2059′	8	551′
Ervin Drilling Co.	C. Brinkerhoff #5	460′N 460′W SEc SW SW Sec. 15-1N-2E	Rosiclare	2089′	15	550′
The Texas Co.	F. Fricke NCT-1 #5	330′S 330′W NEc SE SE Sec. 16-1N-2E	Renault	2185′	--------	553′
William J. Pfeffer	Meyer-Summerville Comm. #1	330′N 330′W SEc NE SW Sec. 16-1N-2E	Rosiclare	2130′	60	554′

The Texas Co.	F. Fricke NCT-1 #9	330′N 330′W SEc Sec. 16-1N-2E	Rosiclare	2090′	71	554′
The Texas Co.	F. Fricke NCT-1 #10	663′S 330′W NEc SE NE Sec. 16-1N-2E	Rosiclare	2132′	260	552′
Ervin Drilling Co.	O. F. Carr #1	330′S 330′W NEc SE Sec. 17-1N-2E	McClosky	2134′	40	557′
T. M. Conrey	Burge-Davis #1	330′S 330′E NWc SE NE Sec. 21-1N-2E	Rosiclare	2156′	9	-------
Frank Strickland	Burge et al #1	330′N 330′W SEc SE NE NE Sec. 21-1N-2E	Rosiclare	2130′	80	549′
Frank Strickland	Burge #2	330′S 330′W NEc SE NE Sec. 21-1N-2E	Rosiclare	2112′	88	550′
Leo Dare	Miller Comm. #1	330′S 330′W NEc Sec. 21-1N-2E	Rosiclare	2126′	75	550′
T. M. Conrey	Fricke-Davis Comm. #1	330′S 330′W NEc SE Sec. 21-1N-2E	Rosiclare	2137′	120	-------
T. M. Conrey	Lore E. Burge et al #1	330′N 330′W SEc NE Sec. 21-1N-2E	Rosiclare	2118′	130	548′
T. M. Conrey	Fricke-Davis Comm. #2	330′N 330′W SEc NE¼ SE¼ Sec. 21-1N-2E	Rosiclare	2140′	25	-------
Ervin Drilling Co.	Lavene Pitts #2-A	430′N 330′W SEc Sec. 21-1N-2E	Rosiclare	2147′	3	443′
Ervin Drilling Co.	Pitts #3	330′S 340′W NEc SE¼ SE¼ Sec. 21-1N-2E	Rosiclare	2134′	9	549′
T. M. Conrey	Catherine A. Sebastian #2	330′S 660′W NEc SW Sec. 21-1N-2E	McClosky	2142′	50	------
T. M. Conrey	J. H. Bass #1	330′S 330′W NEc SE SW Sec. 21-1N-2E	Rosiclare	2169′	8–15	-------
Ben Reiss & Dave Coslet	Crane Heirs #1	330′N 330′E SWc NE SW Sec. 22-1N-2E	Rosiclare	2107′	212	528′
Calvert Drilling, Inc.	Crane #1	330′S 330′E NWc SE¼ NW¼ Sec. 22-1N-2E	Rosiclare	2095′	136-30	524′
Clyde Bassett	Crane #1	330′S 330′E NWc Sec. 22-1N-2E	Rosiclare	2080′	15	550′
Calvert Drilling, Inc.	L. E. Crane #2	380′N 330′E SWc SE¼ NW¼ Sec. 22-1N-2E	McClosky	2111′	39	525′
Clyde Bassett	Crane #3	330′N 330′W SEc NW NW Sec. 22-1N-2E	Rosiclare	2100′	30	-------
Ben Reiss & Dave Coslet	Mabel March #1	330′S 330′E NWc SE¼ SW¼ Sec. 22-1N-2E	Rosiclare	2100′	200	519′
Leo Dare	R. N. Davis, et al #1	330′N 330′E SWc NW NW Sec. 22-1N-2E	Rosiclare	2087′	10	550′
E. M. Self	Hodges #1	330′S 330′E NWc SW NW Sec. 22-1N-2E	Rosiclare	2110′	45	547′
E. M. Self	Hodges #5	330′N 330′E SWc NW¼ Sec. 22-1N-2E	Rosiclare	2135′	60	547′
E. M. Self	Hodges #6	330′N 330′W SEc NW¼ SW¼ Sec. 22-1N-2E	Rosiclare	2125′	180	547′
E. M. Self	Hodges #7	330′S 330′W NEc NW¼ SW¼ Sec. 22-1N-2E	Rosiclare	2127′	220	548′
E. M. Self	Hodges #8	330′N 330′W SEc SW¼ NW¼ Sec. 22-1N-2E	Rosiclare	2128′	160	549′
Clyde Bassett	Crowley #2	330′N 330′E SWc NE¼ NW¼ Sec. 22-1N-2E	Rosiclare	2087′	-------	534′
Clyde Bassett	Crowley #3	330′S 330′W NEc NW¼ Sec. 22-1N-2E	Rosiclare	2140′	100	-------
J. T. Thompson	Hattie Mercer #2	330′S 330′E NWc SW SW Sec. 22-1N-2E	Rosiclare	2115′	50	533′
E. C. Reeves	Harry Corbin, Jr., #1	330′S 330′E NWc NE¼ SW¼ Sec. 22-1N-2E	Rosiclare	2130′	150	542′
Clyde Bassett	Crowley #1	330′S 330′E NWc NE NW Sec. 22-1N-2E	Rosiclare	2084′	126	550′
J. T. Thompson	Hattie Mercer #1	330′N 330′E SWc Sec. 22-1N-2E	Rosiclare	2089′	9	515′
E. M. Self	Hodges #3	330′N 330′E SWc NW Sec. 22-1N-2E	Rosiclare	2117′	60	550′
Clyde Bassett	Crane #2	330′S 330′W NEc NW NW Sec. 22-1N-2E	Rosiclare	2082′	173	545′
E. M. Self	Hodges #1	330′S 330′E NWc SW Sec. 22-1N-2E	Rosiclare	2132′	82	551′
E. M. Self	Hodges #2	330′S 330′W NEc SW NW Sec. 22-1N-2E	Rosiclare	2101′	60	536′
T. M. Conrey, Jr	Morrison #1	400′S 330′E NWc SW NW Sec. 27-1N-2E	Rosiclare	2146′	-------	-------
C. G. Hardin	Alson Myers #1	330′S 330′E NWc NW SW Sec. 27-1N-2E	Rosiclare	2204′	4	495′
G. W. Rohman	R. O. Phelps #2-A	330′N 330′E SWc SE Sec. 28-1N-2E	Rosiclare	2128′	30	558′
G. W. Rohman	R. O. Phelps #1-A	330′N 330′W SEc SW SE Sec. 28-1N-2E	Rosiclare	2124′	125	557′
G. W. Rohman	Rex W. Price #1-A	330′N 380′E SWc NE SE Sec. 28-1N-2E	Rosiclare	2137′	75	552′
W. E. Weidler	Crowley #4	330′S 330′W NEc NW SE Sec. 28-1N-2E	Rosiclare & McClosky	2210′	140	555′
H. J. Schlafly	Boggs-Boggs Heirs Comm. #1	330′S 330′E NWc SE Sec. 33-1N-2E	Benoist	1969′	10	568′
J. T. Thompson	Chas. F. Ryan #1	330′S 330′E NWc SW¼ NW¼ Sec. 34-1N-2E	Rosiclare	2190′	7	575′
Union Contracting & Engineering Co.	E. F. Hawkins #1	330′N 990′E SWc SW¼ SW¼ SW¼ Sec. 29-1N-4E	St. Louis	2919′	150	534′
Bill Montgomery	Ruben Young #1	330′N 330′W SEc NW NE Sec. 7-2N-2E	McClosky	2180′	-------	546.02′
Perrine and Perrine	Dexter Cone #1	330′N 330′E SWc NW SW Sec. 15-2N-2E	McClosky	2135′	3	-------
Chris Pearson	Shanafeldt #1	330′N 330′E SEc NW¼ Sec. 16-2N-2E	McClosky	2152′	10	-------
Bill Montgomery	L. N. Richardson #1	330′N 330′W SEc NE SW Sec. 17-2N-2E	McClosky	2152′	5	538′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
MARION COUNTY—Concluded						
E. C. Reeves	Branch #1	330'N 330'E SWc NW Sec. 27-2N-2E	Benoist	2046'	½	483'
Perrine & Perrine	R. E. Blackburn #1	330'N 330'W SE¼ SW¼ SE¼ Sec. 3-2N-4E	St. Louis	2790'	--------	493'
Welker Oil Co.	I. C. Tullis #1	330'N 330'W SEc SW SW Sec. 10-2N-4E	McClosky	2826'	100 water 30 oil	500'
Perrine & Perrine	Walter Gieck #1	330'S 330'W NEc NW¼ NE¼ Sec. 10-2N-4E	St. Louis	2776'	240	481'
Virgil I. Helgen	W. V. Williams #1	330'S 330'W NEc SE SE Sec. 10-2N-4E	McClosky	2809'	90	464'
Welker Oil Co.	Williams #1	990'S 330'W NEc SE Sec. 10-2N-4E	McClosky St. Louis	2805'	90	463'
Welker Oil Co.	Ora Fatheree #1	330'N 330'W SEc SW SE Sec. 10-2N-4E	St. Louis	2800'	350	463'
Virgil I. Helgen	Williams #2	330'N 330'E SWc SE¼ SE¼ Sec. 10-2N-4E	McClosky	2809'	80	464'
Perrine & Perrine	Roy E. Laymon #1	330'S 330'E NWc NE¼ NE¼ Sec. 10-2N-4E	St. Louis	2754'	140	465'
The Texas Co.	Albert Hawn, Jr., #1	330'N 330'W SEc NW¼ SE¼ Sec. 10-2N-4E	McClosky	2842'	50	460'
The Texas Co.	Marion B. Parks #1	362'N 362'W SEc SW Sec. 10-2N-4E	McClosky	2845'	228 oil 26 water	478'
Virgil Helgen	W. C. Frye #1	330'N 990'W SEc NE¼ SW¼ Sec. 11-2N-4E	Lower McClosky	2852'	90	495'
Virgil I. Helgen	Merrihew #1	330'N 330'E SWc Sec. 11-2N-4E	O'Hara	2895'	35	461'
Virgil I. Helgen	Merrihew #2	330'N 330'E SWc NW SW Sec. 11-2N-4E	McClosky	2826'	60	465'
J. G. Swartz	Ebe #2	330'S 330'E NWc NE NW Sec. 14-2N-4E	McClosky	2852'	10	497'
Virgil I. Helgen	Fred C. Bryant #1	990'N 330'W SEc NW NW Sec. 14-2N-4E	Lower McClosky	2481'	125	491'
Virgil I. Helgen	Fred C. Bryant #2	330'S 330'E NWc Sec. 14-2N-4E	Lower McClosky	2812'	50	459'
Welker Oil Co.	A. H. Bachmann-Williams Comm. #1	990'N 330'W SEc NE NE Sec. 15-2N-4E	McClosky	2800'	50	--------
Holleman & Husk	Clara Langenfeld #B-2	330'N 330'E SWc NW SW Sec. 4-3N-1E	McClosky	1363'	8	507'
Holleman & Husk	C. Rogier #2	990'N 330'E SWc SE Sec. 4-3N-1E	McClosky	1370'	2	510'
E. M. Self	Delay #3	330'S 330'W NEc NW Sec. 9-3N-1E	Cypress	1372'	5	507'
Ervin Drilling Co.	Varde #1	330'N 330'W SEc SW NE Sec. 33-3N-2E	Rosiclare & McClosky	2176'	25	--------
Robin H. Brians & R. L. Wheelock	Vernie Nattier #9	421'S 921'E NWc SW SE Sec. 29-4N-1E	Benoist	1410'	10	503'
MACON COUNTY						
Sun Oil Co.	George O. Albers Unit Well #1	330'N 330'E SWc NW SW Sec. 5-15N-1E	Silurian	2005'	135	611'
Sun Oil Co.	George O. Albers Unit Well #1	330'S 330'E NWc NE SW Sec. 5-15N-1E	Silurian	2002'	35	613'
Sun Oil Co.	Catherine M. Heerdt #1	330'S 330'E NWc NE SW Sec. 6-15N-1E	Silurian	2052'	4	608'
Sun Oil Co.	Heerdt-Chapman Unit Well #2	330'S 330'W NEc SW SE Sec. 6-15N-1E	Silurian	2031'	35	614'
Sun Oil Co.	June K. Usinger #2	330'S 330'W NEc SE SE Sec. 6-15N-1E	Silurian	2008'	130	609'
Welker Oil Co.	A. B. Scott #1	330'N 330'W SEc NW Sec. 6-15N-1E	Silurian	1952'	80	607'
Welker Oil Co.	Vernie Scott #1	990'N 330'E SWc SE NW Sec. 6-15N-1E	Silurian	1977'	20	--------
Sun Oil Co.	Merville H. Damery #1	330'S 330'W NEc Sec. 7-15N-1E	Silurian	2020'	50	609'

Dell Carroll	A. F. Krall #1	330′S 330′E NWc NE SW Sec. 14-16N-1E	Silurian	2081′	50	678′
Keystone Oil Co.	Roderick #1	990′N 330′W SEc NW NE Sec. 26-16N-1E	Silurian	2090′		601′
M. H. Richardson	Paul Hood #1	330′S 330′W NEc NE NW NE Sec. 5-16N-2E	Silurian	2037′		620′
Lester Walker	Hawkins #1	330′N 330′W SEc NE SW Sec. 1-16N-3E	Devonian	2309′	25	686′
Lester Walker	Lewis Veech #1	330′N 330′W SEc SE Sec. 2-16N-3E	Devonian	2290′	30	687′
F. L. Runyon	Otto Veech #1	330′S 330′E NWc Sec. 12-16N-3E	Devonian	2321′	5	692′
Jack N. Schaffer	W. H. Wagner #1	330′S 330′E NWc NE Sec. 7-16N-4E	Devonian	2344′		681.14′
M. H. Richardson	Benjamin Trimby #1	330′S 330′W NEc SW NE Sec. 32-17N-2E	Silurian	2074′	2	
Floyd Runyon	P. J. Daut #2	990′S 330′E NWc SE Sec. 32-17N-2E	Robinson	995′	2	
F. L. Runyon	Lyster Comm. #1	330′N 330′E SWc SE SE Sec. 32-17N-2E	Silurian	2060′	100	649′
F. L. Runyon	Ruth Parish #1	330′N 330′E SWc Sec. 33-17N-2E	Silurian	2070′	20	649′
Theodore Myers	A. T. Boyd #1	330′N 990′E SWc NW Sec. 29-17N-3E	Silurian	2209′	8	680′
MACOUPIN COUNTY						
A. R. Frank	Thode #3	650′N 330′E SWc NE SE Sec. 16-7N-7W	Pennsylvanian	472′		
Roy Updike	Geo. Seniker #1	45′S 330′E NWc SW NW NW Sec. 22-7N-7W	Pennsylvanian	517′	12	505′
MADISON COUNTY						
Ashland Oil & Refining Co.	Donley A. Brooks #6	330′S 330′W NEc SE NE Sec. 10-4N-6W	Silurian	1796′	28	517′
Sherman Smith-Elmer Lehr	Fischer #1	355′S 560′W NEc SE NW Sec. 4-5N-6W	Pennsylvanian	240′		543′
Neary and Cahill		330′N 670′E SWc NW NW Sec. 20-6N-6W	Pennsylvanian	551′	30	
George Cassens	Brandt #2	395′S 415′W NEc NW SE Sec. 29-6N-6W	Pennsylvanian	540′	5	
George Cassens	Brandt #4	330′S 580′W NEc NW Sec. 29-6N-6W	Pennsylvanian	555′	4	
George Cassens	John Brandt #5	1182′N 333′E SWc SE Sec. 29-6N-6W	Pennsylvanian	525′	5	
Jos. Kesl, Jr	Wm. Albrecht, Jr. #13	650′S 420′W NEc Sec. 30-6N-6W	Pennsylvanian	545′	10	583′
Jos. Kesl, Jr	Clarence Schlechte #7	500′S 330′W NEc NW NE Sec. 30-6N-6W	Pennsylvanian	560′	5	580′
McDONOUGH COUNTY						
A. J. Lewison	Patton #1	965′N 550′E SWc NE Sec. 17-4N-4W	Hoeing	430′	3	
Alfred Frommelt	Lewis Waddill #1	330′N 383′W SEc NE SE SE Sec. 32-5N-4W	Hoeing	530′	4½	608′
Alfred Frommelt	Lewis Waddill #2	990′N 714′W SEc Sec. 32-5N-4W	Hoeing	539′	5	600′
MORGAN COUNTY						
C. C. Pearson	Bert McNeeley #1	330′S 619′E NWc SE Sec. 8-15N-9W	Salem	330′	2½	624′
C. C. Pearson	Ruly York #1	330′N 990′W SEc NE Sec. 13-15N-10W	Pennsylvanian	318′	¼	615′
Edward Lee Wirth	Weinfeld #1	330′S 330′W NEc NW SW Sec. 28-16N-8W	Pennsylvanian	290′		648′
C. C. Pearson	F. J. Devlin #2	330′S 330′E NWc SW NE Sec. 28-16N-8W	Pennsylvanian	300′	2½	598′
C. C. Pearson	Lester E. Riley #1	330′S 330′E NWc SE NE Sec. 33-16N-8W	Pennsylvanian	300′		
PERRY COUNTY						
Canter Drilling Co.	A. F. Cizick #1	330′S 330′W NEc SE NW Sec. 24-4S-2W	Benoist	1135′	4	529′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
MOULTRIE COUNTY						
Pure Oil Co.	W. A. Blare #1	330'N 330'W SEc SW NW Sec. 22-12N-6E	Aux Vases	2360'	7	708'
Pure Oil Co.	Waggoner Cons. #1	330'N 330'W SEc NW SW Sec. 22-12N-6E	Aux Vases	3305'	48	718'
RANDOLPH COUNTY						
Collins Bros. Oil Co.	Wilson-Carns #1	330'N 330'E SWc SW SE SE Sec. 9-4S-5W	Silurian	2269'	60	508'
Jet Oil Co.	Carl Easdale #7	330'S 330'E NWc NE NE Sec. 16-4S-5W	Silurian	2265'	182	500'
Alch Drilling Co.	Matthew R. Lyons #1	330'N 330'W SEc NW NW Sec. 7-4S-6W	Silurian	1692'	50	451'
Jet Oil Co.	Rodgers #3	330'S 330'E NWc SW SE Sec. 7-4S-6W	Silurian	1635'	60	1635'
RICHLAND COUNTY						
Don Baines	Ritter #1	330'N 330'E SWc SE SE Sec. 2-2N-8E	Rosiclare	2978'	7	412'
Don Baines	J. B. Diel-Holman Comm. #1	330'N 330'W SEc SW NE Sec. 11-2N-8E	Rosiclare	2990'	80	413'
Don Baines	Ira Diel #2	330'S 330'W NEc NW SE Sec. 11-2N-8E	Rosiclare	2994'	30	410'
Don Baines	R. Guyot #1	330'N 330'E SWc SE NE Sec. 11-2N-8E	Rosiclare	3000'	80	410'
Don Baines	Longest #1	330'N 330'E SWc NE SE Sec. 11-2N-8E	Rosiclare	3065'	100	410'
Don Baines	Longest #2	330'S 330'W NEc SE Sec. 11-2N-8E	Rosiclare	2992'	200	412'
Don Baines	Ullom #1	330'S 330'W NEc NW Sec. 11-2N-8E	Rosiclare	2987'	5	414'
The Pure Oil Co.	Minnie Taylor-B #1	330'S 330'W NEc Sec. 11-2N-8E	O'Hara Rosiclare McClosky	3030'	260'	411'
The Pure Oil Co.	Chas. Guyot-B #1	330'N 330'W SEc NE Sec. 11-3N-8E	Rosiclare	3020'	371	412'
The Pure Oil Co.	B. M. Hawkins-B #1	330'N 330'W SEc NE NE Sec. 11-2N-8E	McClosky Rosiclare	3032'	311	412'
Don Baines	F. W. Boon #1	330'N 330'E SWc NE Sec. 12-2N-8E	McClosky	3007'	2	409'
Perry Fulk	H. E. Burr #1	330'S 330'W NEc SE SW Sec. 12-2N-8E	Rosiclare	3054'	60	409'
Perry Fulk	Burr-Van Matre #2	330'S 330'E NWc SE SW Sec. 12-2N-8E	Rosiclare	3026'	75.01	411'
Don Baines	Myers-Long Comm. #1	330'S 330'E NWc NE SW Sec. 12-2N-8E	McClosky	2989'	150	414'
Don Baines	William Long #1-B	360'S 330'E NWc SW Sec. 12-2N-8E	McClosky	2992'	250	411'
Don Baines	Wm. Long #1-C	330'S 990'E NWc NE SW Sec. 12-2N-8E	McClosky	3015'	75	414'
Don Baines	Long #2-B	330'S 330'W NEc NW SW Sec. 12-2N-8E	McClosky	2991'	245	411'
Perry Fulk	E. A. Steele #1	330'N 330'E SWc SE Sec. 12-2N-8E	McClosky	3055'	30.21	408'
Don Baines	Travis #1	330'N 330'E SWc NW NE Sec. 12-2N-8E	McClosky	3074'	--------	409'
The Pure Oil Co.	E. B. Chaffin-C #2	330'N 330'E SWc NW Sec. 12-2N-8E	Rosiclare	3020'	380	410'
The Pure Oil Co.	E. V. Chaffin-C #5	330'N 330'W SEc SW NW Sec. 12-2N-8E	Rosiclare	3040'	29	411'
The Pure Oil Co.	E. V. Chaffin-C #3	330'S 330'E NWc SW NW Sec. 12-2N-8E	McClosky Rosiclare	3035'	204	411'

The Pure Oil Co.	E. V. Chaffin-C #4	330′N 330′E SWc NW NW Sec. 12-2N-8E	McClosky Rosiclare	3029′	201	411′
Perry Fulk	Harley Fryman #1	330′S 330′E NWc NE Sec. 13-2N-8E	Rosiclare	3020′	38.55	411′
Perry Fulk	Emit Mading #1	330′S 330′W NEc NW Sec. 13-2N-8E	Rosiclare	3020′	107.17	409′
M. V. Ring	Taylor Heirs #1	330′N 330′W SEc NE NE Sec. 4-2N-9E	McClosky	3150′	40	-------
Calvert Drilling, Inc	Byram #2	330′S 330′W NEc SE SE Sec. 19-2N-14W	McClosky	3196′	57	497′
Calvert Drilling, Inc	Lawrence Byram et al #1	330′N 330′E SWc SE SE Sec. 19-2N-14W	McClosky	3225′	67	497′
Calvert Drilling, Inc	Ard D. Groff #2	330′S 330′W NEc SE Sec. 19-2N-14W	McClosky	3180′	81	480′
Calvert Drilling, Inc	G. P. Koertge #1	330′S 330′W NEc NW SE Sec. 19-2N-14W	McClosky	3208′	21	497′
Slagter Producing Co	K. E. Ridgely #2	330′N 660′E SWc NW NW Sec. 20-2N-14W	McClosky	3213′	75	504′
Calvert Drilling Co	Arthur D. Groff #1	330′N 330′E SWc NE SE Sec. 19-2N-14W	McClosky	3221′	39	494′
Calvert Drilling Co	Ridgely-Groff Comm. #2	330′S 330′W NEc SE NE Sec. 19-2N-14W	McClosky	3200′	106	502′
Calvert Drilling Co	Byram Comm. #1	330′N 330′E SWc NW Sec. 20-2N-14W	McClosky	3194′	68	501′
Calvert Drilling Co	Frost Comm. #1	330′S 660′E NWc NW Sec. 20-2N-14W	McClosky	3197′	56	499′
Calvert Drilling, Inc	Martha Walden #1	660′S 330′E NWc SW Sec. 20-2N-14W	McClosky	3193′	35	505′
Calvert Drilling, Inc	Boewe #2	330′N 990′W SEc SE SW Sec. 30-2N-14W	McClosky	3229′	75	500′
Calvert Drilling, Inc	Koertge #1	330′N 330′E SWc NE Sec. 30-2N-14W	McClosky	3257′	52	508′
Calvert Drilling, Inc	Koertge "A" #1	330′N 660′W SEc NE NE Sec. 30-2N-14W	McClosky	3187′	29	500′
Calvert Drilling, Inc	H. E. Ridgely #1	330′S 330′W NEc SW NE Sec. 30-2N-14W	McClosky	3244′	139	503′
Calvert Drilling, Inc	Ridgely #2	330′S 330′E NWc NE NE Sec. 30-2N-14W	McClosky	3225′	90	495′
Calvert Drilling, Inc	H. E. Ridgely #3	330′N 660′E SWc NW NE Sec. 30-2N-14W	McClosky	3216′	50	504′
Calvert Drilling, Inc	H. E. Ridgely #4	330′S 660′E NWc NE Sec. 30-2N-14W	McClosky	3193′	75	489′
Skiles Oil Corp	Charles E. Rusk #1	330′N 330′W SEc Sec. 11-3N-8E	Cypress Aux Vases	3072′	19	422′
Frank T. Whittinghill, Jr	Jno. Robards #1	330′N 330′E SWc NW Sec. 24-3N-8E	Cypress Aux Vases	3041′	45	429′
Pure Oil Co	John O. Coen #46	660′S 690′W NEc SW Sec. 4-3N-9E	McClosky	3660′	--------	488′
Pure Oil Co	John O. Coen #47	660′S 660′E NWc SW Sec. 4-3N-9E	McClosky	3204′	--------	491′
Pure Oil Co	John O. Coen #48	890′N 680′E SWc Sec. 4-3N-9E	McClosky	2998′	--------	490′
Pure Oil Co	C. T. Montgomery-B #5	660′S 660′E SWc NW Sec. 4-3N-9E	St. Louis	3132′	85	495′
Pure Oil Co	C. T. Montgomery-B #6	660′S 660′E NWc Sec. 4-3N-9E	Salem	3675′	108	503′
Pure Oil Co	C. T. Montgomery-B #17	50′S 15′E NWc SE NW Sec. 4-3N-9E	McClosky	3213′	--------	500′
Pure Oil Co	John Hundley #8	120′S 620′E NWc SW NE Sec. 5-3N-9E	McClosky	3204′	--------	491′
Pure Oil Co	John Hundley #9	660′S 660′W NEc SE NE Sec. 5-3N-9E	McClosky	3204′	--------	500′
Pure Oil Co	Elizabeth Pflaum-A #5	340′S 860′E NWc NE Sec. 5-3N-9E	McClosky	2995′	--------	494′
Pure Oil Co	Palmer-Taylor #15	660′N 660′W SEc Sec. 5-3N-9E	McClosky	3674′	--------	489′
Pure Oil Co	Palmer-Taylor #16	660′S 660′W NEc SE Sec. 5-3N-9E	McClosky	3204′	--------	493′
Pure Oil Co	Palmer-Taylor #17	65′N 210′W SEc NW SE Sec. 5-3N-9E	McClosky	3004′	--------	488′
Pure Oil Co	Nathaniel Taylor #2	330′S 330′E NWc NE SE Sec. 7-3N-9E	McClosky	3010′	8	470′
Pure Oil Co	Frances J. Coen-A #5	660′N 320′E SWc NE SE Sec. 8-3N-9E	McClosky	3676′	8	482′
Pure Oil Co	C. L. Wilson #3	660′S 660′W NEc Sec. 8-3N-9E	McClosky	2996′	--------	481′
Pure Oil Co	John O. Coen #49	1320′S 660′E NWc Sec. 9-3N-9E	McClosky	2990′	--------	487′
Don Slape Drilling Co	C. Jennings #1	330′N 330′W SEc SW NW Sec. 21-3N-10E	McClosky	3155′	20	422′
C. S. Higgins	H. H. Harmon et al #1	330′N 330′W SEc SW NE NW Sec. 32-3N-14W	Waltersburg	2376′	70	496′
Pure Oil Co	C. L. Dees #1	330′N 330′W SEc SW NW Sec. 1-4N-9E	Aux Vases	2950′	122	518′
H. L. Browning	Landis #1	330′S 330′E NWc SW NE Sec. 1-4N-9E	Aux Vases	2828′	100	504′
H. L. Browning	Landis #2	330′N 330′E SWc NE Sec. 1-4N-9E	Aux Vases	2835′	100	515′
H. L. Browning	Landis #3	330′S 330′W NEc SW NE Sec. 1-4N-9E	Aux Vases	2870′	100	501′
J. J. Lynn	J. J. Lynn-Stevens #9	330′N 330′W SEc SW Sec. 1-4N-9E	Aux Vases	2879′	80	548′
Pure Oil Co	C. P. Porter #1	660′S 330′W NEc NW SW Sec. 1-4N-9E	Aux Vases	3000′	207	531′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
RICHLAND COUNTY—Concluded						
Pure Oil Co.	C. P. Porter #2	330'N 330'E SWc NW SW Sec. 1-4N-9E	Aux Vases	2913'	127	526'
J. J. Lynn	Porter Cons. #2	330'S 330'W NEc SW SW Sec. 1-4N-9E	Aux Vases	2885'	90	531'
J. J. Lynn	Porter Cons. #3	330'S 330'E NWc SW SW Sec. 1-4N-9E	Aux Vases	2890'	40	527'
J. J. Lynn	Porter Cons. #4	330'N 330'E SWc Sec. 1-4N-9E	Aux Vases	2880'	60	519'
J. J. Lynn	Porter Cons. #5	330'N 330'W SEc SW SW Sec. 1-4N-9E	Aux Vases	2885'	150	533'
J. J. Lynn	Stevens #5	330'S 330'E NWc NE SW Sec. 1-4N-9E	Aux Vases	2895'	354	526'
J. J. Lynn	Stevens #6	330'N 330'E SWc NE SW Sec. 1-4N-9E	Aux Vases	2885'	200	537'
J. J. Lynn	Stevens #7	330'S 330'E NWc SE SW Sec. 1-4N-9E	Aux Vases	2893'	200	532'
J. J. Lynn	Stevens #8	330'N 305'E SWc SE SW Sec. 1-4N-9E	Aux Vases	2885'	10	539'
J. J. Lynn	Stevens #10	405'S 330'W NEc SW Sec. 1-4N-9E	Aux Vases	2875'	200	536'
John W. Rudy	Wharf #1	330'N 330'E SWc SE NW Sec. 1-4N-9E	Aux Vases	2848'	125	516'
John W. Rudy	Wharf #2	990'N 330'W SEc NW Sec. 1-4N-9E	Aux Vases	2834'	100	506'
John W. Rudy	Wharf #3	330'N 470'W SEc NW Sec. 1-4N-9E	Aux Vases	2818'	100	514'
John W. Rudy	Wharf #4	990'S 330'W NEc NW Sec. 1-4N-9E	Aux Vases	2810'	100	498'
Perry Fulk	Jack Ribley #B-2	E½ of SE¼ SE¼ Sec. 2-4N-9E	Aux Vases	2946'	110	
Perry Fulk	Jack Ribley #B-3	330'N 330'W SEc NE SE Sec. 2-4N-9E	Aux Vases	2916'	30	505'
Rochester & Goodell Engrs., Inc.	Bert Swim #1	455'N 330'W SEc SW NE Sec. 11-4N-9E	Aux Vases	2906'	100	
Rochester & Goodell Engrs., Inc.	Bert Swim #2	990'N 330'W SEc SW NE Sec. 11-4N-9E	Aux Vases	2885'	75	398'
J. J. Lynn	Hayes #3	330'S 990'W NEc NW NW Sec. 12-4N-9E	Aux Vases	2891'	40	519'
Perry Fulk	Keen #1	330'S 330'E NWc NE NW Sec. 12-4N-9E	Aux Vases	2882'	280	546'
Perry Fulk	Keen #2	330'S 330'W NEc NW Sec. 12-4N-9E	Aux Vases	2945'	280	555'
Pure Oil Co.	Everett Taylor-B #2	330'S 330'E SWc NE SE Sec. 14-4N-9E	Cypress	2995'	5	547'
Pure Oil Co.	H. D. Hayes #3	330'S 330'W NEc SE Sec. 22-4N-9E	Cypress	2630'	68	522'
Pure Oil Co.	Dessie B. Veit #7	330'S 360'E NWc SW Sec. 23-4N-9E	Cypress	2627'	42	512'
W. W. Toler Drilling Corp.	Carl D. Snider #B-1	330'N 330'E SWc SE SE Sec. 25-5N-9E	Aux Vases	2914'	100	
Pure Oil Co.	C. P. Porter #B-1	330'N 330'E SWc NW Sec. 23-4N-9E	Aux Vases	2990'	28	520'
Pure Oil Co.	Frank L. Wakefield A-20	330'S 330'W NEc SE NW Sec. 26-4N-9E	Cypress	2605'	36	503'
Pure Oil Co.	Frank L. Wakefield A-21	330'S 330'E NWc SE NW Sec. 26-4N-9E	Cypress	2615'	9	504'
Illiana Drilling Corp.	F. & A. Storer #2	330'N 330'W SEc NW Sec. 7-4N-10E	Cypress	2659'	50	547.5'
John W. Rudy	Varner Cons. #1	330'N 330'E SWc Sec. 30-5N-10E	Aux Vases	2816'	60	491'
Pure Oil Co.	Homer C. Coen #7	330'N 330'W SEc SW SE Sec. 36-5N-9E	Aux Vases	2845'	229	487'
Pure Oil Co.	Virgil Compton #3	330'S 330'E NWc NE NE Sec. 36-5N-9E	Aux Vases	2920'	85	486'
John W. Rudy	W. F. Cavis #1	665.5'N 330'W SEc SW Sec. 36-5N-9E	Aux Vases	2947'	30	
John W. Rudy	Homer C. Coen #1	330'S 330'E NWc SW SE Sec. 36-5N-9E	Aux Vases	2825'	50	490'
Pure Oil Co.	Homer C. Coen #6	330'S 330'W NEc SW SE Sec. 36-5N-9E	Aux Vases	2854'	187	488'
Pure Oil Co.	Guy F. Glossbrenner #7	330'S 330'E NWc Sec. 31-5N-10E	Aux Vases	2870'	29	483'

SALINE COUNTY

Collins Bros	Paul Jones #1	330'S 330'W NEc SW NW Sec. 19-7S-5E	McClosky	3284'	40	455'
Breuer-Robison Co	Dewey Turner #1	330'N 330'E SWc NE SE Sec. 35-7S-6E	Cypress	2565'	30	378'
Breuer-Robison Co	Dewey Turner #2	990'N 330'E SWc NE SE Sec. 35-7S-6E	Cypress	2563'	75	383.5'
Breuer-Robison Co	Dewey Turner #3	990'S 330'E NWc SE NE Sec. 35-7S-6E	Cypress	2575'	60	382'
Breuer-Robison Co	J. H. Massey #4	330'N 330'W SEc SW NE Sec. 35-7S-6E	Cypress	2567'	70	381'
Breuer-Robison Co	Woolard Heirs #1	330'S 330'E NWc SW SE Sec. 35-7S-6E	Cypress	2950'	50	391'
Breuer-Robison Co	Woolard Heirs #2	330'N 330'E SWc SE Sec. 35-7S-6E	Cypress	3170'	120	391'
Breuer-Robison Co	Woolard Heirs #3	330'S 330'W NEc SW SE Sec. 35-7S-6E	Cypress	2990'	80	379'
Breuer-Robison Co	Woolard Heirs Comm. #1	330'N 990'E SWc SE Sec. 35-7S-6E	Cypress	2543'	600	381'
Breuer-Robison Co	Woolard Heirs et al Comm. #2	330'N 990'W SEc Sec. 35-7S-6E	Cypress	2933'	60	380'
Breuer-Robison Co	Woolard Heirs et al Comm. #3	330'S 330'E NWc SE SE Sec. 35-7S-6E	Cypress	2940'	70	380'
Calvert Drilling, Inc	Ben Davis "A" #2	330'N 330'E SWc NW SE Sec. 35-7S-6E	Cypress	2550'	73	381'
Calvert Drilling, Inc	Ben Davis "A" #3	330'S 330'W NEc SE SW Sec. 35-7S-6E	Cypress	2553'	100	382'
Calvert Drilling, Inc	Ben Davis "A" #4	330'S 430'W NEc NW SE Sec. 35-7S-6E	Cypress	2550'	109	381'
Calvert Drilling, Inc	Ben Davis "A" #6	330'N 330'W SEc NW SE Sec. 35-7S-6E	Cypress	2549'	136	380'
Calvert Drilling, Inc	Bona Comm. #1	330'S 330'E NWc SW NW Sec. 23-8S-5E	Paint Creek	3022'	15	386'
Dee Miller Drilling, Inc	Spurlock, Rapp, Jones Comm. #3	430'N 330'W SEc NE SW Sec. 2-8S-6E	Cypress	2624'		450'
Calvert Drilling, Inc	Ben Davis "B" #2	330'S 330'E NWc NE NE Sec. 2-8S-6E	Cypress	2564'	46	386'
Dee Miller Drilling, Inc	Spurlock, Rapp, Jones Comm. #2	330'N 330'W SEc NE SW Sec. 2-8S-6E	Cypress	2620'	20	438'
Walter Duncan	Martin Blankenship #1	330'S 330'E NWc SW SE Sec. 2-8S-6E	Cypress	2687'		487'
George & Wrather Oil Co	Boswell #1	330'S 330'W NEc SE SW Sec. 2-8S-6E	Cypress	2611'	160	440'
George & Wrather Oil Co	Lemons #5	330'S 330'E NWc SW NE Sec. 2-8S-6E	Cypress	2558'	40	410'
George & Wrather Oil Co	Parker #1-A	330'S 330'W NEc NW Sec. 2-8S-6E	Cypress	2571'	60	409'
George & Wrather Oil Co	Rhine #1	330'N 330'E SWc NW NE Sec. 2-8S-6E	Cypress	2557'	90	400'
George & Wrather Oil Co	Rhine #2	330'S 330'E NWc NE Sec. 2-8S-6E	Cypress	2561'	70	395'
George & Wrather Oil Co	Rhine #3	330'S 390'W NEc NW NE Sec. 2-8S-6E	Cypress	2557'	150	388'
George & Wrather Oil Co	Lemons #4	330'N 330'E SWc NW SE Sec. 2-8S-6E	Cypress	2654'	130	471'
George & Wrather Oil Co	Parker #2	330'S 330'W NEc SE NW Sec. 2-8S-6E	Cypress	2588'	100	415'
George & Wrather Oil Co	Parker #3	330'N 330'W SEc NE NW Sec. 2-8S-6E	Cypress	2569'	17	419'
Calvert Drilling, Inc	M. M. Endicott #1	330'S 330'E NWc SW SE Sec. 2-8S-7E	Waltersburg	3050'	60	383'
Calvert Drilling, Inc	M. M. Endicott #2	330'N 280'W SEc NW SE Sec. 2-8S-7E	Waltersburg	2130'	51	380'
Calvert Drilling, Inc	M. M. Endicott #4	330'S 1050'E NWc SE Sec. 2-8S-7E	Waltersburg	2166'	40	377'
Calvert Drilling, Inc	Amanda Scroggin et al #1	330'N 330'W SEc SW Sec. 2-8S-7E	Waltersburg	2606'	200	378'
Ashland Oil & Refining Co	Victor Suttner #2	330'S 330'W NEc SE SE Sec. 7-8S-7E	Aux Vases	2931'	100	412'
Ashland Oil & Refining Co	Victor Suttner #4	330'N 330'E SWc SE SE Sec. 7-8S-7E	Aux Vases	2953'	92	425'
Carter Oil Co	Velma Turner #2	330'S 330'E NWc SE SW Sec. 8-8S-7E	Tar Springs Hardinsburg	2938'	137	407'
Carter Oil Co	Velma Turner #3	330'S 330'W NEc SE SW Sec. 8-8S-7E	Hardinsburg Tar Springs	2922'	318	392'
Carter Oil Co	Turner-Wilson Comm. #2	330'S 330'E NWc SW SW Sec. 8-8S-7E	Aux Vases	2955'	234	419'
Carter Oil Co	James E. Horn #2	330'N 330'E SWc NE SW Sec. 8-8S-7E	Hardinsburg	2938'	198	395'
Carter Oil Co	T. Reeder #2	330'N 330'W SEc NE SW Sec. 8-8S-7E	Aux Vases	2921'	57	2921'
James R. Grandin	E. Kittinger #1	330'S 330'E NWc SW SE Sec. 8-8S-7E	Aux Vases	2913'	37	390'
John Stelle Associates	Roy Watson #1-A	357'N 190'W SEc SW SW Sec. 8-8S-7E	Aux Vases	2945'	229	123'
John Stelle Associates	Roy Watson #2	330'N 330'E SWc Sec. 8-8S-7E	Aux Vases	2971'	750	433'
W. C. McBride, Inc	Nona Carder #1	330'S 330'W NEc SW SE Sec. 10-8S-7E	Waltersburg	2278'	400	398'
W. C. McBride, Inc	C. D. Flanders #1	330'N 330'E SWc SW NE SE Sec. 10-8S-7E	Waltersburg	3040'	960	406'
Miami Operating Co	Stanley Edmister et al Comm. #1	330'N 330'W SEc SW Sec. 13-8S-7E	Cypress	2895'	32	385'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
SALINE COUNTY—Concluded						
W. C. McBride, Inc	C. H. Burnett Comm. #1	330'S 330'W NEc NW Sec. 15-8S-7E	Waltersburg	3018'	500	405'
Richard W. Portis	Lassater #1	330'N 330'E SWc NE Sec. 15-8S-7E	Waltersburg	2636'	720	413'
Ashland Oil & Refining Co	Bobbie Gene Wilson #1	330'S 330'W NEc SW NW Sec. 17-8S-7E	McClosky	2897'	--------	424'
Illinois Mid-Continent Co	Leslie Stinson #1	330'S 330'E NWc NE NW Sec. 17-8S-7E	Aux Vases	3071'	40	407'
New Illinois Mid-Continent Co	Leslie Stinson B-1	330'N 330'E SWc NE SW Sec. 17-8S-7E	Aux Vases	2958'	40	451'
B. L. Rucker	Watson-Hardy Heirs Comm. #1	330'N 330'W SEc NW SW	Aux Vases	2945'	400	430'
C. E. Brehm	Emma Ashbrook Comm. #1	330'N 365'E SWc SE Sec. 17-8S-7E	Aux Vases	2907'	20	424'
Illinois Mid-Continent Co	Leslie Stinson #2	330'N 330'E SWc SW SE NW Sec. 17-8S-7E	Tar Springs	2955'	25	437'
B. L. Rucker	J. Booten #1	330'N 330'W SEc SW NW Sec. 17-8S-7E	Tar Springs	2271'	50	458'
B. L. Rucker	Slow Heirs #1	330'S 330'W NEc NW SW Sec. 17-8S-7E	Aux Vases	2962'	35	--------
Pep Drilling Co	Watson #2	330'S 330'E NWc NE NE Sec. 18-8S-7E	Aux Vases	2938'	50	--------
John Stelle Associates	John J. Jones #1	330'S 330'W NEc NE SW Sec. 20-8S-7E	Aux Vases	2995'	250	407'
Davis-Menhall Drilling Co	Lucille Goschorn Comm. #1	330'N 330'E SWc SE NW NW Sec. 20-8S-7E	Tar Springs	2170'	55	401.6'
Davis-Menhall Drilling Co	Lucille Goschorn Comm. #2	330'S 330'W NEc SW NW Sec. 20-8S-7E	Aux Vases	2895'	40	404'
Sam. W. Humphrey & Peter C. Tremont	Beulah Heights School Comm. #1	330'S 520'E NWc SE Sec. 20-8S-7E	Aux Vases	2894'	75	--------
Sam. W. Humphrey & Peter C. Tremont	Beulah Heights School Comm. #2	245'S 330'W NEc NW SE Sec. 20-8S-7E	Waltersburg	2157'	400	408'
Sam. W. Humphrey & Peter C. Tremont	Beulah Heights School Comm. #2-A	245'S 350'W NEc NW SE Sec. 20-8S-7E	Aux Vases	2915'	100	407'
Roy Pledger	West Beulah Heights Unit #1	340'S 256'E NWc SW SE Sec. 20-8S-7E	Aux Vases	2904'	90	385'
Roy Pledger	West Beulah Heights Unit Well #2	478'N 335'E SWc NW SE Sec. 20-8S-7E	Aux Vases	2915'	200	401'
Roy Pledger	Campbell Comm. #1	485'N 385'W SEc NW SE Sec. 20-8S-7E	Aux Vases	2195'	4	404'
Roy Pledger	Clark Comm. Unit #1	324'N 448'E SWc SE NE Sec. 20-8S-7E	Waltersburg	2176'	1200	418'
John Stelle Associates	Bartok #1	330'N 420'E SWc NE Sec. 20-8S-7E	Aux Vases	2905'	75	412'
John Stelle Associates	Bartok #2	245'N 330'W SEc SW NE Sec. 20-8S-7E	Waltersburg	2176'	400	412'
John Stelle Associates	Claud Brown et al Comm. Unit #2	400'S 400'W NEc SE NW Sec. 20-8S-7E	Aux Vases	2879'	70	397'
John Stelle Associates	Claude Brown et al Comm. Unit #3	330'S 330'E NWc SE NW Sec. 20-8S-7E	Paint Creek	2893'	80	400'
John Stelle Associates	J. P. Collins et al Comm. #1	330'S 330'E NWc NE SE Sec. 20-8S-7E	Waltersburg	2188'	300	409'
John Stelle Associates	J. J. Jones et al Comm. Unit #2	330'S 330'E NWc NE SW Sec. 20-8S-7E	Paint Creek Aux Vases	2885'	200	404'
John Stelle Associates	J. J. Jones et al Comm. Unit #3	330'N 330'W SEc NE SW Sec. 20-8S-7E	Paint Creek Aux Vases	2885'	56	410'
John Stelle Associates	Seagraves Comm. Unit #1	330'S 330'W NEc SE SW Sec. 20-8S-7E	Aux Vases	2877'	100	385'
John Stelle Associates	Seagraves Comm. Unit #2	330'N 330'W SEc SE SW Sec. 20-8S-7E	Aux Vases	2890'	75	382'
Roy Pledger	O. S. Young Estate Unit Well #1	330'S 313'E NWc SW NW Sec. 21-8S-7E	Aux Vases	2950'	144	431'
Magnolia Petroleum Co	Cecil Simpson Well #1	330'N 330'W SEc NW NE Sec. 23-8S-7E	Aux Vases	2883'	98	386'
G. L. Reasor	James H. Porter #2	330'S 330'W NEc NW SE Sec. 23-8S-7E	Aux Vases	2906'	50	403'
G. L. Reasor	James H. Porter #3	330'N 330'E SWc NE SW Sec. 23-8S-7E	Aux Vases	2890'	60	395'
G. L. Reasor	E. C. Scott #2	330'S 330'E NWc NE SE Sec. 23-8S-7E	Cypress	3040'	40	400'

G. L. Reasor	George Shaver et al #1	330'S 330'W NEc SW SW Sec. 23-8S-7E	Rosiclare	3038'	5	399'
Carter Oil Co.	J. R. Davenport #1	330'S 330'W NEc NW Sec. 24-8S-7E	Tar Springs Cypress	2628'	177½	--------
John Stelle Associates	Wentzel #1	330'S 330'W NEc NW Sec. 29-8S-7E	Palestine	1965'	90	394'
Walter Duncan	J. W. Leithliter et al #1	330'N 330'E SWc SE NE Sec. 23-8S-7E	Aux Vases	2920'	85	401'
Walter Duncan	Adams-Simpson Comm. #1	330'S 330'E NWc SW NE Sec. 23-8S-7E	Aux Vases	3060'	113	390'
Walter Duncan	Dora Strain et al #1	330'N 330'W SEc SW NE Sec. 23-8S-7E	St. Genevieve	2930'	--------	391'
SANGAMON COUNTY						
W. F. Wooters	Andrew W. Robinson #1	505'S 330'E NWc SE Sec. 10-14N-4W	Silurian	1743'	100	604'
W. F. Wooters	Burl F. Young #1	340'N 330'W SEc NE SW Sec. 10-14N-4W	Silurian	1742'	--------	584'
W. L. Swope	Morris & Brest #1	330'S 330'E NWc SW NE Sec. 3-15N-3W	Silurian	1822'	--------	590.80'
WABASH COUNTY						
James P. Gaines	Sanders #2	1320'S 990'E NWc SW Sec. 6-1N-11W	Biehl	1370'	--------	--------
J. M. Hughes	Mary D. Stillwell #2	626.6'N 330'W SEc Sec. 1-1N-12W	Biehl	1431'	30	--------
J. C. Westfall	J. M. Mullinax #2	330'N 70'W SEc NE SE Sec. 5-1N-12W	Biehl	1578'	50	487'
New Illinois Mid-Continent Oil Co.	Litherland Farms #1	335'S 360'W NEc SE SE Sec. 6-1N-12W	Biehl	1545'	40	439'
J. M. Hughes	Sanders #3	330'N 330'W SEc SW SW Sec. Frac. 6-1N-12W	Jordan	1435'	100	483'
Illinois Oil Co.	Leek #2	330'N 330'W SEc NW SE Sec. 7-1N-12W	Biehl	1551'	30	422'
Illinois Oil Co.	Taylor-Wheatley Comm. #1	330'N 330'E SEc SW SE Sec. 7-1N-12W	Biehl	1549'	95	420'
Illinois Oil Co.	Taylor-Wheatley Comm. #2	990'N 330'W SEc SW SE Sec. 7-1N-12W	Biehl	1554'	60	421'
J. C. Westfall	John Naylor et al #1 Comm.	1650'S 330'W NEc Sec. 8-1N-12W	Biehl	1539'	20	438'
Forest Oil Corp.	J. T. Smith M-26	15'S 140'W NEc SW NW NW Sec. 10-1N-12W	Biehl	1532'	--------	465'
Mt. Carmel Drilling Co.	Etta King et al #1	330'N 330'E SWc NE SE Sec. 17-1N-12W	Biehl	1540'	40	423'
J. C. Westfall	Ed Hartwick #1	330'N 330'W SEc NW Sec. 19-1N-12W	Biehl	1616'	25	428'
The West Drilling Co.	West Drilling Co. #1	330'S 330'E NWc SW SE Sec. 19-1N-12W	Biehl	1581'	75	436'
J. C. Westfall	Stanley J. Price #3-A	330'N 70'E SWc NW SE Sec. 19-1N-12W	Biehl	1595'	50	448'
J. C. Westfall	Stanley J. Price #1	330'N 330'W SEc NE SW Sec. 19-1N-12W	Biehl	1560'	50	444'
J. C. Westfall	Stanley J. Price #4	330'S 330'W NEc SW Sec. 19-1N-12W	Biehl	1566'	50	415'
J. C. Westfall	Stanley J. Price #5	330'S 330'E NWc NE SW Sec. 19-1N-12W	Jordan	1615'	20	443'
J. C. Westfall	Stanley J. Price #6	330'S 70'E NWc SE Sec. 19-1N-12W	Biehl	1595'	50	438'
Cecil Keneipp	J. W. Price Heirs #3	330'N 330'W SEc NE NE Sec. 22-1N-12W	Cypress	1991'	7	--------
Illinois Oil Co.	G. Higgins #2	99'N 330'W SEc NE Sec. 22-1N-12W	Cypress	2022'	75	423'
Raymond Brinkly	Price-Storkman Comm. #1	530'S 336'W NEc NW NW Sec. 23-1N-12W	Benoist	1975'	12	427'
Charles E. Fisher, Jr.	Wilkinson et al #1	488'S 330'W NEc Sec. 23-1N-13W	Benoist	2368'	40	445'
Charles E. Fisher, Jr.	Wilkinson et al #2	290'N 330'W SEc NE NE Sec. 23-1N-13W	Benoist	2383'	80	449'
T. M. Egan	F. O. Goodart et al #1	330'S 330'W NEc SE NE Sec. 24-1N-13W	Biehl	1582'	50	--------
J. Gaines & D. Brinkley	Clark #1	224'S 330'W NEc SE NW Sec. 24-1N-12W	Biehl	1459'	15	--------
Coon Creek Oil Co.	French et al Comm. #1	990'S 990'W NEc SW Sec. 32-2N-12W	Jordan	2280'	13	--------
R. I. Thompson	H. E. Earnest #1	330'S 990'W NEc NW Sec. 34-2N-12W	Benoist	2071'	50	479'
Illinois Mid-Continent Co.	John J. Springman #1	330'N 330'E SWc SE Sec. 35-2N-12W	Cypress	1990'	50	427'
Harley M. Yolton	Trimble #5	212.5'N 330'W SEc NE SE Sec. 35-2N-12W	Benoist	1991'	100	433'
Wm. F. Seiglar	Schuler-Baird Comm. #1-A	285'S 330'W NEc NW NW Sec. 20-1S-12W	Cypress	2044'	17	441'
Noah Petroleum Co.	L. A. Kieffer #1	330'S 330'E NWc SE Sec. 30-1S-12W	O'Hara	2476'	125	434'
Hoyt Lovelace	E. E. Majors et al #1	330'N 330'E SWc SE NW Sec. 2-1S-13W	Cypress	2310'	25	447'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
WABASH COUNTY—Concluded						
Hoyt Lovelace	Eugene Shumate #1	330'S 330'W NEc SW NW Sec. 2-1S-13W	Cypress	2315'	65	450'
Hoyt Lovelace	Eugene Shumate #2	330'S 330'E NWc SE NW Sec. 2-1S-13W	Cypress	2300'	25	445'
Sinclair Oil & Gas Co.	Amos Majors #3	330'N 330'W SEc SW SW Sec. 2-1S-13W	Cypress	2321'	58	470'
Hayes-Wolf Bros. Oil Co.	L. E. Meyer #3	330'N 330'W SEc NW Sec. 8-1S-13W	Benoist	2572'	100	408'
Burr Lambert	Brines #1	330'S 430'E NWc SE Sec. 8-1S-13W	Benoist	2575'	25	408'
Carl J. Neer	McKendree Coll. Alcorn-Dixon Comm. #2	330'S 530'W NEc SE NW Sec. 11-1S-13W	Cypress	2281'	160	464'
Dell Carroll	C. N. Rigg #4	330'S 400'E NWc SW Sec. 11-1S-13W	Cypress	2305'	25	447'
Mt. Carmel Drilling Co.	R. A. Dixon #5	330'N 330'W SEc NE NW Sec. 11-1S-13W	Cypress	2398'	140	482'
Norman & Graef	James B. Donohue #2	330'S 330'W NEc SE NW Sec. 16-1S-13W	Benoist	2605'	50	439'
R. I. Thompson	Weisenberger #1	330'N 330'E SWc Sec. 16-1S-13W	Benoist	2600'	40	
R. I. Thompson	Weisenberger #2	330'S 330'E NWc SW SW Sec. 16-1S-13W	Benoist	2622'	45	
Burr Lambert	John Sterl #1	430'S 330'E NWc NE Sec. 17-1S-13W	Benoist	2528'	12	401'
Calvert Drilling, Inc	L. Ulm #4	330'S 330'W NEc SE Sec. 17-1S-13W	Benoist	2599'	39	427'
R. I. Thompson	John Sterl #1-A	330'N 330'E SWc SE NE Sec. 17-1S-13W	Benoist	2600'	40	
R. I. Thompson	John Sterl #2-A	330'S 330'W NEc SE NE Sec. 17-1S-13W	Benoist	2610'	60	
Shell Oil Co.	Mt. Carmel Water Flood Unit #15	1050'S 847'E NWc NE Sec. 18-1S-12W	Cypress	2078'	7	484'
Skiles Oil Corp	Charles Steckler #1	990'S 990'E NWc NW Sec. 19-1S-12W	Cypress	2060'	42	413'
H. Leo Garrett	Frank M. Peter et al #1	330'S 330'E NWc SW Sec. 19-1S-13W	Rosiclare	2930'	30	472'
Wm. F. Seiglar	Wm. F. Jarosz Comm. #1	330'S 330'E NWc NE NW Sec. 20-1S-12W	Biehl	2080'	33	445'
Paco Petroleum Corp	Lucy Tennis et al #1	101'N 330'E SWc SE NW Sec. 20-1S-13W	Benoist	2657'	75	477'
Paco Petroleum Corp	Seiler-Davis Comm. #1	348'N 360'W SEc NW Sec. 30-1S-12W	Rosiclare	2499'	75	421'
Davis Lambert	Edgar Alka #1	330'N 330'E SWc NW NE Sec. 32-1S-13W	Cypress	2605'	40	443'
Davis Lambert	Clella Ewald #1	330'N 330'E SWc NE Sec. 32-1S-13W	Cypress	2598'	55	420'
Davis Lambert	Clella Ewald #2	330'N 330'W SEc SW NE Sec. 32-1S-13W	Cypress	2581'	55	415'
George & Wrather Oil Co.	Beckerman #6	330'S 442'E NWc NE SE Sec. 32-1S-13W	Benoist	2578'	100	411'
George & Wrather Oil Co.	Beckerman #7	330'N 442'E SWc NE SE Sec. 32-1S-13W	Benoist	2571'	40	410'
E. H. Morris	Sophia Ceney #4-A	360'N 330'E SWc NW SE Sec. 32-1S-13W	Benoist	2589'	50	427'
Davis Lambert	Clella Ewald #3	330'S 330'E NWc SW NE Sec. 32-1S-13W	Cypress	2582'	50	
E. H. Morris	Sophia Ceney #2	330'S 990'E NWc SE Sec. 32-1S-13W	Cypress Benoist	2566'	40	414'
E. H. Morris	Sophia Ceney #3	330'S 330'E NWc SE Sec. 32-1S-13W	Cypress Benoist	2566'	60	419'
E. H. Morris	Sophia Ceney #4	330'N 330'E SWc NW SE Sec. 32-1S-13W	Benoist	2589'	40	427'
Norman & Graef	Edward B. Keepes #1	330'S 330'E NWc NE NW Sec. 33-1S-13W	Benoist	2565'	80	409'
Norman & Graef	Edward B. Keepes #2	330'N 330'W SEc NE NW Sec. 33-1S-13W	Benoist	2557'	50	408'
Norman & Graef	Edward B. Keepes #3	330'S 330'W NEc NW Sec. 33-1S-13W	Benoist	2555'	60	408'
George & Wrather Oil Co.	Geo. Gilkison Heirs #1	330'N 330'E SWc SE SE Sec. 35-1S-14W	Cypress	2609'	30	401'
George & Wrather Oil Co.	Geo. Gilkison Heirs #2	330'N 830'E SWc SE SE Sec. 35-1S-14W	Cypress	2618'	20	402'

Alice M. Woodson	L. Williams #1	254'N 314'W SEc NE NE Sec. 17-2S-13W	Cypress	2564'	2	--------
Francis L. Beard	H. A. Elkins #1	330'S 330'W NEc SW SE Sec. 20-2S-13W	Benoist	2650'	50	430'
L. D. Sawyer	T. T. Taylor #3	990'S 330'E NWc NE NE Sec. 20-2S-13W	Benoist	2625'	90	416'
L. D. Sawyer	T. T. Taylor #4	990'N 330'W SEc NE Sec. 20-2S-13W	Benoist	2662'	60	449'
L. D. Sawyer	T. T. Taylor #5	210'S 330'E NWc SE NE Sec. 20-2S-13W	Benoist	2671'	60	458'
L. D. Sawyer	Compton #1	330'N 330'E SWc NW Sec. 21-2S-13W	Cypress	2134'	55	452'
Mt. Carmel Drilling Co.	Ethel Parmenter #1	330'S 330'W NEc SE NW Sec. 34-2S-14W	Tar Springs	2112'	60	482'
White & Vickery	Epler #3	330'N 330'W SEc Sec. 34-2S-13W	Cypress	2406'	40	393'
V. R. Gallagher	Broster #1	330'S 330'W NEc NW SE Sec. 35-2S-14W	Cypress	2600'	90	386'
Victor R. Gallagher	Richardson-Schroeder Comm. #1	330'N 330'E SWc NW NE Sec. 35-2S-14W	Tar Springs	2950'	30	402'
Skiles Oil Corp	Mary Richardson #1	330'N 330'W SEc SW NE Sec. 35-2S-14W	Tar Springs	2215'	90	395'
V. R. Gallagher	Broster #4	330'S 330'E NWc SE Sec. 35-2S-14W	Cypress	2600'	20	386'
Skiles Oil Corp	Helm #P-8	330'N 330'W SEc SW SE Sec. 10-3S-14W	Benoist	2760'	80	--------
Coy Oil, Inc	Dorothy G. UpDeGraff et al #1	330'S 330'W NEc NW NE Sec. 15-3S-14W	Benoist	2841'	150	372'
Coy Oil, Inc	Dorothy G. UpDeGraff et al #A-1	330'S 330'E NWc NE NE Sec. 15-3S-14W	Benoist	2835'	125	376'
Coy Oil, Inc	Dorothy G. UpDeGraff et al #2	990'S 330'W NEc NW NE Sec. 15-3S-14W	Biehl-Benoist	2854'	50	374'
Coy Oil, Inc	Dorothy G. UpDeGraff et al #A-2	990'S 330'E NWc NE NE Sec. 15-3S-14W	Benoist	2706'	115	374'
Coy Oil, Inc	Dorothy G. UpDeGraff et al #3-A	1630'S 330'W NEc NW NE Sec. 15-3S-14W	Benoist	2710'	65	370'
Coy Oil, Inc	Dorothy G. UpDeGraff et al #A-3	1650'S 330'E NWc NE NE Sec. 15-3S-14W	Benoist	2710'	125	374'
Coy Oil, Inc	Dorothy G. UpDeGraff et al #4	330'S 990'W NEc NW NE Sec. 15-3S-14W	Benoist	2745'	75	370'
Skiles Oil Corp	Dorothy G. UpDeGraff et al #A-4	2290'S 330'E NWc E½ NE Sec. 15-3S-14W	Benoist	2709'	75	373'
Luboil	Helm #9	330'S 330'W NEc NW Sec. 15-3S-14W	Benoist	3005'	9	370'
	Helm #71	265'S 515'W NEc SE Sec. 22-3S-14W	Aux Vases Benoist	2790'	70	386'
Luboil	Helm #10	480'N 430'W SEc NW Sec. 27-3S-14W	Benoist	2697'	--------	370'
Luboil	Helm #72 (Formerly W-37)	640'N 250'E SWc NW SW NE Sec. 27-3S-14W	Cypress Aux Vases	2790'	35	376'

Washington County

Walter Duncan	Bingaman #5	330'N 330'W SEc Sec. 27-1N-1W	Benoist	1485'	23	468'
Walter Duncan	Bingaman #2	330'S 330'E NWc NE NE Sec. 34-1N-1W	Benoist	1477'	57	465'
Jet Oil Co	R. T. Hails #4	330'S 330'W NEc NW NE Sec. 34-1N-1W	Benoist	1469'	44	457'
A. M. Fowley	Robert M. Oshs #2	330'N 330'W SEc NE SW Sec. 3-1S-4W	Silurian	2359'	--------	408'
M. Mazzarino	Arning #3	330'N 330'E SWc NE Sec. 9-1S-1W	Cypress	1390'	175	--------
M. Mazzarino	Arning #4	330'S 990'E NWc SW NE Sec. 9-1S-1W	Cypress	1380'	200	------
M. Mazzarino	Roy Kasten #1	330'S 990'W NEc SE NE Sec. 9-1S-1W	Cypress	1388'	100	--------
M. Mazzarino	Roy Kasten #2	30'N 990'W SEc NE NE Sec. 9-1S-1W	Cypress	1390'	150	--------
M. Mazzarino	Roy Kasten #3	330'N 990'W SEc Sec. 9-1S-1W	Cypress	1389'	25	--------
M. Mazzarino	Neuhaus #2	330'N 330'W SEc NW Sec. 9-1S-1W	Cypress	1390'	55	--------
M. Mazzarino	Riechman #3-B	330'N 405'E SWc NW NE Sec. 9-1S-1W	Cypress	1380'	25	--------
Mazzarino & Kapp	Arning #5	330'N 990'E SWc NE Sec. 9-1S-1W	Cypress	1387'	50	--------
M. Mazzarino	Neuhaus #1	330'S 330'W NEc SE NW Sec. 9-1S-1W	Cypress	1379'	75	477'
M. Mazzarino	Riechman #4	330'N 990'E SWc NW NE Sec. 9-1S-1W	Cypress	1371'	50	467'
M. Mazzarino & L. Kapp	Riechman #3	330'N 330'E SWc NW NE Sec. 8-1S-1W	Cypress	1374'	25	469'
Louis Kapp	Riechman #1	330'S 330'E NWc NE Sec. 9-1S-1W	Cypress	1370'	35	467'
M. Mazzarino	Arning #2	330'N 330'W SEc NE NW Sec. 9-1S-1W	Cypress	1376'	25	474'
M. Mazzarino	Arning #1	330'S 330'E NWc SW NE Sec. 9-1S-1W	Cypress	1370'	100	469'
Lester Arning	J. T. Brink Comm. #1	385'S 130'W NEc NW NE Sec. 25-1N-1W	Pennsylvanian	762'	15	--------
Inland Oil Co	Ted Kruski 3-A	380'S 330'E NWc SE NE Sec. 33-2S-2W	Benoist	1444'	65	5395'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
WASHINGTON COUNTY—Concluded						
Homer Rutherford	Clude Grathwohl #1	330'N 330'W SEc NW SE Sec. 34-1N-1W	Benoist	1486'	18	477'
Walter Duncan	Bingaman #6	330'N 330'W SEc NE NE Sec. 34-1N-1W	Benoist	1470'	90	458'
Walter Duncan	Bingaman #3	330'S 330'W NEc Sec. 34-1N-1W	Benoist	1489'	65	473'
Homer Rutherford	Cope B-5	990'N 330'W SEc NE Sec. 34-1N-1W	Benoist	1472'	54	461'
Homer Rutherford	Cope B-6	330'N 330'W SEc NE Sec. 31-1N-1W	Benoist	1490'	22	479'
George Cullum & D. P. Lawhead	Erbes #3	330'S 330'E NWc SW Sec. 10-1S-1W	Cypress	1526'	30	486'
L. J. Loyd	Marie Grotti #1	330'N 330'E SWc SW NW SE Sec. 10-2S-1W	Cypress	1551'	3	591'
John Beadleston	Ted Kruski #1	330'S 330'E NWc SE SE Sec. 33-2S-2W	Benoist	1431'	150	524'
J. L. McManamy	Nick Wisniewski #1	330'N 330'W SEc NE SE Sec. 13-3S-2W	Benoist	3002'	30	487'
Harry Mabry	R. E. Bowers #2	330'S 860'E NWc SW NE Sec. 20-3S-1W	Cypress	1248'		
Harry Mabry	John Pieszhalski #1-A	330'N 330'W SEc NW SW Sec. 28-3S-1W	Rosiclare	1544'		535'
Ohio Oil Co.	Schwind-I. C. R. R. Comm. #1	370'S 330'E NWc NE Sec. 33-3S-1W	Rosiclare	1544'	69	526'
WAYNE COUNTY						
National Associated Petroleum Co.	D. H. Paul "A" #1	330'N 330'E SWc SE¼ Sec. 14-1N-5E	Aux Vases	2973'	83	455'
National Associated Petroleum Co.	D. H. Paul "B" #1	330'S 330'E NWc NE Sec. 23-1N-5E	Aux Vases	2965'	64	462'
Tony Forino	Otto Shelton #1	330'S 330'E NWc SW SW Sec. 28-1N-5E	Aux Vases	2848'	40	
Tony Forino	Asa Lee #1	330'S 330'E NWc Sec. 33-1N-5E	Aux Vases	2887'	300	456'
McKelvy & Sipoha	Charles Winters #1	330'N 330'E SWc SE SE Sec. 25-1N-6E	McClosky	3253'	25	504'
United Producing Co., Inc.	C. T. Schofield	336.6'S 668.8'W NWc SW¼ SW¼ Sec. 35-1N-6E	O'Hara	3191'	4	436'
McKelvy & Sipoha	Rollie Smith	330'N 660'W SEc NW 35-1N-6E	Aux Vases	3241'		500'
H. V. Spires	V. Ellison #1	330'N 165'E SWc NW¼ NE¼ Sec. 36-1N-6E	Aux Vases	3268'	10	514'
National Associated Petroleum Co.	S. C. Ruble #1	330'N 330'W SEc Sec. 1-1N-7E	Aux Vases	3076'	65	403'
National Associated Petroleum Co.	S. C. Ruble #2	330'N 380'E SWc SE SE Sec. 1-1N-7E	Aux Vases	2965'	22	404'
Paco Petroleum Corp.	J. W. Barth "C" #1	330'S 330'W NEc SE Sec. 2-1N-7E	Aux Vases	2951'	125	426'
The Pure Oil Co.	Duke Consolidated-B #1	330'N 330'E SWc NW¼ Frac. NW¼ Sec. 2-1N-7E	Aux Vases	3120'	29	439'
John W. Rudy	Wilson Flexter #8	330'N 330'W SEc SW NW Sec. 3-1N-7E	Aux Vases	3141'	5	450'
National Associated Petroleum Co.	Barth-Pomery "A" #1	330'S 330'W NEc NW SE Sec. 9-1N-7E	Aux Vases	3246'	60	459'
National Associated Petroleum Co.	Barth-Fitch #1	330'S 330'E NWc NE¼ SE¼ Sec. 9-1N-7E	Aux Vases	3108'	25	454½'
National Associated Petroleum Co.	Barth-Pomeroy "A" #2	380'N 330'E SWc NW¼ SE¼ Sec. 9-1N-7E	Aux Vases	3241'	50	459'
National Associated Petroleum Co.	Barth-Pomeroy "B" #1	330'N 330'W SEc SW¼ NE¼ Sec. 9-1N-7E	Aux Vases	3123'	35	460'
National Associated Petroleum Co.	Gorden Perry #2	330'S 330'W NEc SW SE Sec. 12-1N-7E	Aux Vases	3045'	179	440½'
National Associated Petroleum Co.	Gorden Perry #3	330'N 330'E SWc SE Sec. 12-1N-7E	Aux Vases	3088'	70	444'
National Associated Petroleum Co.	Charles Obrecht Heirs #1	330'S 330'E NWc SE SE Sec. 12-1N-7E	Aux Vases	3123'	117	437'
The Pure Oil Co.	C. R. Orr-A #1	660'S 330'E NEc NE Sec. 12-1N-7E	Aux Vases	3087'	112	433'
The Pure Oil Co.	C. R. Orr-A #3	330'N 330'W SEc NE SW Sec. 12-1N-7E	Aux Vases	3070'	198	438'
The Pure Oil Co.	J. W. Barth-B #1	666'S 330'W NEc NW Sec. 12-1N-7E	Aux Vases	3069'	86	432'
The Pure Oil Co.	Monroe Harrington-B #5	330'S 330'E NWc SE¼ NW¼ Sec. 12-1N-7E	Aux Vases	3070'	116	427'

Fletcher F. Farrar & Charles P. Wood	C. R. Orr "A" #1	330'S 330'W NEc SE SW Sec. 12-1N-7E	McClosky	3075'	340	340'
Fletcher F. Farrar	C. R. Orr "A" #2	330'N 330'W SEc SW Sec. 12-1N-7E	Aux Vases	3090'	300	443'
National Associated Petroleum Co.	Gordon Perry #1	330'S 330'E NWc SW SE Sec. 12-1N-7E	Aux Vases	3129'	332	440'
National Associated Petroleum Co.	Gordon Perry "B" #1	330'N 330'E SWc NE¼ NW¼ Sec. 12-1N-7E	Aux Vases	2990'	28	424'
The Pure Oil Co.	J. W. Reid #4	330'N 330'W SEc NW SE Sec. 12-1N-7E	Aux Vases	2990'	130	425'
J. L. McManamy & C. P. Wood	H. T. Miller #1	330'S 330'W NEc NW Sec. 13-1N-7E	McClosky	4128'	441	60'
National Associated Petroleum Co.	Beckel #1	330'S 330'W NWc NW NW Sec. 13-1N-7E	Aux Vases McClosky	3107'	17	447'
Shulman Bros.	Percy Atteberry #1	330'N 330'W SEc NW SE Sec. 14-1N-7E	Aux Vases	3165'	10	446'
Wayne Misener Drilling Co	Earth #1	330'S 330'W NEc SE NW Sec. 14-1N-7E	Aux Vases	3057'	--------	--------
Whaley Oil Corp.	Antonich #1	330'S 330'E NWc Sec. 14-1N-7E	Aux Vases	3149'	--------	435'
National Associated Petroleum Co.	Becker #3	660'S 360'E NWc SW Sec. 16-1N-7E	Aux Vases	3235'	15	463'
National Associated Petroleum Co.	Cox-Ledford Heirs Comm. #2	330'S 660'E NWc SW NW Sec. 16-1N-7E	Aux Vases	3218'	40	486'
National Associated Petroleum Co.	Wm. Miller #A-1	330'N 381'E SWc NW NW Sec. 16-1N-7E	Aux Vases	3249'	45	477'
National Associated Petroleum Co.	Wm. Miller A-2	530'N 330'W SEc NW NW Sec. 16-1N-7E	Aux Vases	3113'	50	468'
National Associated Petroleum Co.	Joy Reed #2	330'S 330'W NEc SE NW Sec. 16-1N-7E	Aux Vases	3208'	10	464'
National Associated Petroleum Co.	M. E. Richison #2	660'S 330'W NEc NW NE Sec. 16-1N-7E	Aux Vases	3110'	3	458'
The Pure Oil Co.	R. W. Clay-C #3	330'S 130'E NWc SE¼	Aux Vases Rosiclare	--------	--------	--------
National Associated Petroleum Co.	Pearl Becker #2	330'S 330'W NEc SE Sec. 17-1N-7E	Aux Vases	3247'	122	468'
National Associated Petroleum Co.	Stanford #2	330'S 330'E NWc SE NE Sec. 17-1N-7E	Aux Vases	2336'	55	474'
National Associated Petroleum Co.	Jennie Marie Rutger #1-A	660'S 330'W NEc Sec. 17-1N-7E	Aux Vases	3240'	4	457'
National Associated Petroleum Co.	Eva Obrecht #2	330'S 130'W NEc Frac. SW¼ Sec. 6-1N-8E	Aux Vases	3028'	90	404'
Alva C. Davis	Hubble #C-1	330'N 330'W SEc NE Sec. 6-1N-8E		3101'	--------	--------
R. A. Harris	Virgil Holmes #A-1	660'N 330'W SE NE NW Sec. 22-1N-8E	McClosky	3077'	68	400'
R. A. Harris	Virgil Holmes #1	330'N 330'E SWc NW NE Sec. 22-1N-8E	McClosky	3080'	12	408'
Alva C. Davis	G. F. Fissel "C" #1	330'N 330'W SEc SW SW Sec. 26-1N-8E	Aux Vases	3104'	25	386'
Alva C. Davis	G. F. Fishel "C" #2	330'N 330'E SWc Sec. 26-1N-8E	Aux Vases	3096'	25	387'
Dr. Irl J. Neal	Oliver M. Holmes #1	330'S 330'W NEc SW SE Sec. 26-1N-8E	Aux Vases	3065'	75	419'
Don Slape Drilling Co	Best #3	330'N 990'E SWc NE Sec. 27-1N-8E	McClosky	3091'	18	394'
Don Slape Drilling Co	Best #1	330'N 330'W SEc NE NE Sec. 27-1N-8E	Aux Vases	3095'	50	396'
Welby Walden	Wayne Shelton #1	330'S 330'W NEc Sec. 27-1N-8E	Aux Vases	3094'	6	409'
A. J. Slater III	Chrisman #2	330'S 330'E NWc SW SW Sec. 32-1N-8E	Aux Vases	3067'	35	411'
Murvin & Steber	L. Borah #4	330'N 330'W SEc SW SE Sec. 33-1N-8E	Aux Vases	3052'	75	391'
George Cullum & D. P. Lawhead	Farris #4	330'N 330'E SWc NW NE Sec. 34-1N-8E	Aux Vases McClosky	3140'	150	387'
Cullum & Lawhead	Cullum & Lawhead's Farris #3	330'N 330'W SEc NE NW Sec. 31-1N-8E	Aux Vases	3133'	140	387'
George & Wrather Oil Co	Farris #5-B	330'S 330'E NWc SE NE Sec. 34-1N-8E	Aux Vases	3152'	240	386'
George & Wrather Oil Co	Farris #7-B	330'S 330'E NWc SW¼ NE¼ Sec. 24-1N-8E	McClosky	3159'	100	386'
George & Wrather Oil Co	Mary Meade #B-1	660'S 330'E NWc SE¼ SE¼ Sec. 34-1N-8E	Aux Vases	3224'	55	385'
George & Wrather Oil Co	Meade #7-A	330'N 330'E SWc NE SW Sec. 34-1N-8E	Aux Vases	3059'	200	385'
George & Wrather Oil Co	Meade #8-A	330'S 15'W NEc NW SE SW Sec. 34-1N-8E	Aux Vases	3118'	100	386'
Cullum & Lawhead	Blackburn-Thomas #2	330'S 330'E NWc NE NW Sec. 35-1N-8E	Aux Vases	3112'	255	393'
Cullum & Lawhead	Blackburn-Thomas #3	620'N 620'E SWc NE NW Sec. 35-1N-8E	Aux Vases	3141'	90	390'
John Wrather	Yondorf-Ascher #3	330'S 330'W NEc SE NW Sec. 3-1N-9E	O'Hara	3249'	116	399'
John A. Wojcieki D/B/A F. & W. Oil Co	Edna Annis #1	330'N 330'E SWc NW¼ NE¼ Sec. 3-1N-9E	Aux Vases	3235'	--------	--------
F. & W. Oil Co.	Legan Heirs #2	660'S 330'W NEc NW Sec. 3-1N-9E	Aux Vases	3241'	--------	--------
National Associated Petroleum Co.	Eldo Fitch et al #1	330'N 660'E SWc SE Sec. 12-1N-9E	Aux Vases	3200'	50	393'
National Associated Petroleum Co.	Eldo Fitch et al #2	660'N 330'W SEc SW¼ Sec. 12-1N-9E	Aux Vases	3272'	13	392.5'
National Associated Petroleum Co.	George Fritchley #1	330'S 330'W NEc NW NE Sec. 13-1N-9E	McClosky	3306'	--------	395'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
WAYNE COUNTY—Continued						
Dr. Irl J. Neal	R. E. Thompson #8	330'S 990'W NEc SE NW Sec. 26-2N-7E	Aux Vases	2952'	70	446'
The Pure Oil Co.	B. F. Reid #2	330'N 330'W SEc NE SE Sec. 36-2N-7E	Aux Vases	2960'	128	403'
Partlow & Cochonour	George A. Shannon #1	330'N 330'E SWc NE NE Sec. 36-2N-8E	Rosiclare	3088'	25	409'
Whaley Oil Co.	Hazel Heirs #1	330'N 330'W SEc SW Sec. 34-2N-9E	Aux Vases	3300'		400'
Ashland Oil & Refining Co.	Jesse D. Willis #1	330'N 330'E SWc NW¼ SE¼ Sec. 11-1S-6E	Aux Vases	3150'	7	444'
McGaw & Hughes Petroleum Co.	John A. Hilliard #1	330'N 330'W SEc NW¼ Sec. 14-1S-6E	Aux Vases	3073.5'	25	548'
Ashland Oil & Refining Co.	Teddy Caricus, et al #1	330'N 990'W SEc NE SW Sec. 11-1S-6E	Aux Vases	3042'	115	422'
H. L. Ritter	Harold Barnard #1	W½ NE NW Sec. 2-1S-7E	Aux Vases	3167'	80	559'
C. M. Lawhead	Barnard #3	330'S 330'E SWc NE NE Sec. 4-1S-7E	McClosky	3224'	50	464'
Sanders-Fye Drilling Co.	McNeely #1	330'N 330'E SWc SE¼ NW¼ Sec. 10-1S-7E	McClosky	3252'	25	457'
Cullum & Lawhead	Buss #1	330'S 330'W NEc W¼ SW¼ Sec. 33-1S-7E	Aux Vases	3271'	25	467'
T. G. Jenkins	J. L. Milner #3	978'S 330'W NEc NW SE Sec. 33-1S-7E	Aux Vases	3280'	10	466'
T. G. Jenkins	Carlsen A #7	660'N 120'W SWc SE SW Sec. 34-1S-7E	Aux Vases	3226'	40	429'
John C. Floyd Drilling Co.	Lyndal H. Bunting #1	330'N 330'W SEc NE NW Sec. 35-1S-7E	O'Hara	3276'	15	455'
Vernon D. Jarvis	Blackburn-Thomas #3	330'S 330'E NWc SW Sec. 3-1S-8E	Aux Vases	3083'	70	413'
Vernon D. Jarvis	Blackburn-Thomas #4	330'N 330'E SWc SW¼ NW¼ Sec. 3-1S-8E	Aux Vases	3060'	60	392'
The Pure Oil Co.	Borah-Chalcraft Cons. #1	401'S 329'W NEc Frac. NE Sec. 4-1S-8E	Aux Vases	3058'	16	
Vernon D. Jarvis	Lawrence Borah #2	330'S 330'W NEc SE Sec. 4-1S-8E	Aux Vases	3080'	160	411'
Vernon D. Jarvis	Lawrence Borah #3	330'N 330'W SEc NE SE Sec. 4-1S-8E	Aux Vases	3105'	100	422'
The Nation Oil Co.	Grubb-Chalcraft Comm. #1	350'N 330'E SWc E½ NE Frac. ¼ Sec. 4-1S-8E	Aux Vases	3044'	310	397'
The Nation Oil Co.	Grubb-Chalcraft Comm. #2	380'N 330'W SEc W½ Frac. NE Sec. 4-1S-8E	McClosky	3122'	15	541'
The Nation Oil Co.	Grubb #4	330'S 330'E NWc SE Sec. 4-1S-8E	Aux Vases	3055'	105	402'
Sanders-Fye Drilling Co.	C. M. Hobard #1	330'N 450'W SEc Frac. NW Sec. 6-1S-8E	Aux Vases	3170'	17	433'
Lohmann-Johnson Drilling Co.	Perry Beard #2	330'N 330'E SWc SE¼ NE¼ Sec. 9-1S-8E	Aux Vases	3194'		466'
Pure Oil Co.	Cloyd Braham #3	330'N 330'W SEc SW Sec. 12-1S-8E	Aux Vases	3082'	10	381'
Parker Bros. Drilling Contractors	Gash-Tidball #1	330'N 380'E SWc NW Sec. 13-1S-8E	McClosky	3170'		
Joe Bander	Marshall #7	330'N 990'W SEc SW Sec. 16-1S-8E	McClosky Aux Vases	3278'	100	461'
Joe Bander	Marshall #8	330'N 990'E SWc Sec. 16-1S-8E	Aux Vases	3275'	75	459'
Joe Bander	Marshall #10	330'S 990'E NWc SW Sec. 16-1S-8E	Aux Vases	3257'	25	427'
Joe Bander	C. T. Marshall #11	330'N 330'W SEc SW NW Sec. 16-1S-8E	Aux Vases	3220'	75	422'
Joe Bander	C. T. Marshall #12	330'S 330'W NEc SW NW Sec. 16-1S-8E	Aux Vases	3228'	35	420'
Joe Bander	C. T. Marshall #13	330'S 330'E NWc SW NW Sec. 16-1S-8E	Aux Vases	3280'	30	415'
Slagter Producing Co.	Dane Murphy #1	330'N 330'W SEc NW¼ NW¼ Sec. 16-1S-8E	Aux Vases McClosky	3270'	45	425'
Slagter Producing Co.	O. H. Gray #3-D	330'N 330'E SWc SE Sec. 16-1S-8E	McClosky	3263'	65	463'
Slagter Producing Co.	Dane Murphy #2	330'N 330'E SWc NW¼ NW¼ Sec. 16-1S-8E	Aux Vases	3200'	125	414'
Pure Oil Co.	Rowark Consolidated #2	330'N 330'E SW NW NE Sec. 16-1S-8E	O'Hara	3230'	10	449'
Lohmann-Johnson Drilling Co., Inc.	F. A. Bobbett	330'N 330'W SEc NE¼ NE¼ Sec. 17-1S-8E	McClosky	3216'		412'
Ashland Oil & Refining Co.	Dominic Perardi #4-A	330'N 330'E SWc NW¼ SW¼ Sec. 17-1S-8E	Aux Vases	3148'	90	451'

Noah Petroleum Co.	E. P. Englebright #3	330′N 330′W SEc NW SE Sec. 18-1S-8E	Aux Vases	3146′	15	433′
Shakespeare Oil Co.	Farris-Ganieany Comm. #3	330′N 770′W SEc NE¼ NW¼ Sec. Frac. 18-1S-8E	Aux Vases	3104′	13	440′
Noah Petroleum Co.	E. P. Englebright #3A	330′N 330′W SEc NE SE Sec. 18-1S-8E	Aux Vases	3210′	130	468′
The Pure Oil Co.	O. H. Gray-B #2	330′S 330′E NWc NE Sec. 21-1S-8E	McClosky	3300′	42	371′
Slagter Producing Co.	O. H. Gray #2E	330′S 330′E NWc NE NW Sec. 21-1S-8E	Aux Vases	3273′	55	470′
T. G. Jenkins	J. Wheat #1	330′S 330′W NEc NE¼ SE¼ Sec. 21-1S-8E	Aux Vases	3247′	250	460′
Wayne Misener Drilling Co.	J. L. Jones #2	330′N 330′E SWc SE Sec. 23-1S-8E	Aux Vases	3196′		
Nation Oil Co.	Weedon #7	330′S 330′W NEc SE SW Sec. 23-1S-8E	Aux Vases	3128′	32	442′
Nation Oil Co.	Weedon #6	330′N 330′W SEc SW Sec. 23-1S-8E	Aux Vases	3122′	230	435′
Wayne Misener Drilling Co.	Steve Shoultz	330′N 330′E SWc NE SE	Aux Vases	3250′		
Nation Oil Co.	T. B. Liston #2	330′N 330′E SWc NE SE Sec. 22-1S-8E	Aux Vases	3103′	134	461′
N. V. Duncan	Gregory Comm. #1	330′S 330′E NWc NE Sec. 26-1S-8E	Aux Vases	3131′	100	419′
Nation Oil Co.	Claude Mark #5	330′S 330′W NEc NE NE NW Sec. 26-1S-8E	Aux Vases	3125′	165	442′
N. V. Duncan	Bradshaw-Johnson Comm. #1	330′N 330′W SEc SW Sec. 28-1S-8E	Aux Vases	3230′		493′
N. V. Duncan	Bradshaw-Johnson #2	330′S 330′W NEc SE SW Sec. 28-1S-8E	Aux Vases	3208′	150	505′
Pure Oil Co.	Brown Cons. B #1	330′S 330′E NWc SW NW Sec. 28-1S-8E	Aux Vases	3233′	192	
The Pure Oil Co.	Brown Cons. B #2	380′S 330′E NWc NW¼ SW¼ Sec. 28-1S-8E	Aux Vases	3242′	400	501′
The Pure Oil Co.	Brown Consolidated-B #3	330′S 330′W NEc SW¼ NW¼ Sec. 28-1S-8E	Aux Vases	3244′	253	476′
The Pure Oil Co.	Brown Consolidated-B #4	330′N 330′E SWc NW¼ Sec. 28-1S-8E	Aux Vases	3230′	142	494′
Tuley & Carter	J. R. Crews #2-C	330′N 330′E SWc SE Sec. 28-1S-8E	Aux Vases	3206′	50	492′
N. V. Duncan	Johnson-Shelby Comm. #1	330′N 330′W SEc NE SW Sec. 28-1S-8E	Aux Vases	3199′	200	500′
Sam Tipps	A. J. Robertson #1	330′N 330′E SWc NE NE Sec. 28-1S-8E	Aux Vases	3190′	175	494′
Illinois Mid-Continent Co.	A. J. Robertson #2	330′N 330′E SWc NW SE Sec. 28-1S-8E	Aux Vases	3204′	100	506′
Illinois Mid-Continent Co.	A. J. Robertson "B" #2	330′S 330′W NEc SW NE Sec. 28-1S-8E	Aux Vases	3160′	350	466′
Tuley & Carter	A. J. Robertson #4	330′N 330′E SWc SE NE Sec. 28-1S-8E	Aux Vases	3195′	35	483′
C. E. Robbins	Tiff Rudesill #1	330′N 330′E SWc NE¼ NW¼ Sec. 28-1S-8E	Aux Vases	3212′	120	476′
C. E. Robbins	Rudesill #2	330′S 330′E NWc NE NW Sec. 28-1S-8E	Aux Vases	3300′	100	474′
The Pure Oil Co.	Clarence Windland #1	330′N 330′E SWc NW NW Sec. 28-1S-8E	Aux Vases	3214′	500	476′
The Pure Oil Co.	Clarence Windland #2	330′N 330′W SEc NW¼ NW¼ Sec. 28-1S-8E	Aux Vases	3210′	158	473′
The Pure Oil Co.	Clarence Windland #3	330′S 330′E NWc Sec. 28-1S-8E	Aux Vases	3257′	187	475′
The Pure Oil Co.	Walter Andrews #3	330′S 330′W NEc Sec. 29-1S-8E	Aux Vases	3284′	248	495′
The Pure Oil Co.	C. B. Daubs #1	330′S 330′W NEc NW SE Sec. 29-1S-8E	Aux Vases	3321′	194	519′
The Pure Oil Co.	Elsie Dawson #1	330′N 330′W SEc NW¼ Sec. 29-1S-8E	O'Hara	3320′	237	516′
The Pure Oil Co.	Ellis Consolidated #3	330′S 330′W NEc SE Sec. 29-1S-8E	Aux Vases	3292′	656	483′
The Pure Oil Co.	A. L. Milburn #4	330′S 330′W NEc SW¼ NE¼ Sec. 29-1S-8E	Aux Vases	3331′	12	508′
Wayne Misener Drilling Co.	J. O. Turner #1	330′N 330′W SEc NW NE Sec. 29-1S-8E	Aux Vases	3281′		
The Pure Oil Co.	H. E. McLin #1	330′N 330′W SEc NW NE Sec. 32-1S-8E	Aux Vases	3306′	63	435′
The Noah Petroleum Co.	Bodell Johnson #1	330′S 330′W NEc NW NW	Aux Vases	3207′	40	486′
N. V. Duncan	Hal Bradshaw #3	330′S 330′W NEc SW NE Sec. 33-1S-8E	Aux Vases	3203′	150	492′
N. V. Duncan	J. R. Crews #4	330′S 330′E NWc NE Sec. 33-1S-8E	Aux Vases	3190′	200	474′
N. V. Duncan	J. R. Crews #5	330′N 330′W SEc NW NE Sec. 33-1S-8E	Aux Vases	3202′	200	478′
Wayne Misener Drilling Co.	Clarence M. Dorr #3	330′S 330′E NWc SW SE Sec. 33-1S-8E	Aux Vases	3186′		
Wayne Misener Drilling Co.	Harry Short #6	330′N 330′E SWc NW SW Sec. 34-1S-8E	Aux Vases	3201′		
Virgil I. Helgen	Frank Heidinger #1	330′S 330′W NEc SW SW Sec. 35-1S-8E	Aux Vases	3344′		489′
National Associated Petroleum Co.	Luther G. Miller #1	330′S 330′E NWc SE¼ NW¼ Sec. 27-2N-7E	Aux Vases	3105′	40	454′
National Associated Petroleum Co.	Fred Pettijohn #1	330′N 330′W SEc SW¼ NW¼ Sec. 27-2N-7E	Aux Vases	3104′	50	451′
National Associated Petroleum Co.	Mary Yates #1	330′S 330′W NEc SE¼ Sec. 33-2N-7E	Aux Vases	3146′	13	450′
The Pure Oil Co.	Garrison Consolidated #4	330′S 330′W NEc SE SE Sec. 36-2N-7E	Aux Vases	2982′	39	432′
Partlow & Cochonour	Rex Gill #2	330′S 330′W NEc NW¼ Sec. 20-2N-8E	Aux Vases	3035′	56	442′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
WAYNE COUNTY—Concluded						
Partlow & Cochonour	E. Hosselton #2	330′S 330′W NEc NW NW Sec. 20-2N-8E	Cypress McClosky	3032′	169	443′
Partlow & Cochonour	Andy Hubble #2	330′N 330′E SWc NW NW Sec. 29-2N-8E	Aux Vases	2948′	64	442′
The Pure Oil Co.	Joe Z. Craft #3	330′N 330′W SEc NW NE Sec. 30-2N-8E	Aux Vases	2930′	108	419′
Dr. Irl J. Neal	Fred Rica #3	330′N 330′W SEc NE NE Sec. 30-2N-8E	Aux Vases	2950′	75	440′
Partlow & Cochonour	Nannie Rogers #3	330′S 330′W NEc SE¼ NE¼ Sec. 30-2N-8E	Aux Vases	2950′	111	444′
The Pure Oil Co.	Nannie Rogers #5	330′S 330′W NEc SE Frac. NW Sec. 30-2N-8E	Aux Vases	2946′	93	440′
The Pure Oil Co.	Nannie Rogers #6	330′S 330′W NEc SW NE Sec. 30-2N-8E	Aux Vases	2952′	31	439′
Alva C. Davis	Benskin #B-2	990′S 330′E NWc Frac. NW SW Sec. 31-2N-8E	Aux Vases	3061′	25	405′
Artnell Co. & McGaw & Hughes	Ella Mae Combs #1	330′S 330′E NWc SW Sec. 18-2S-5E	Aux Vases	2924′	4	464′
T. G. Jenkins	Lydia McPherson #3	330′N 330′E SWc NW NW Sec. 3-2S-7E	McClosky	3260′	50	438′
T. G. Jenkins	Lydia McPherson #4	330′N 330′W SEc NW NW Sec. 3-2S-7E	Aux Vases	3200′	30	437′
The Texas Co.	E. Koontz #6	330′N 330′W SEc SW Sec. 33-2S-7E	Aux Vases	3364′	2	381′
Patrick H. Kelly	Cox #1-A	330′S 330′E NWc NE¼ NW¼ Sec. 3-2S-8E	Aux Vases	3231′	25	
Illinois Mid-Continent Co.	Harry Martin #2	330′N 330′W SEc NW NE Sec. 4-2S-8E	Aux Vases	3182′	75	453′
Illinois Mid-Continent Co.	Harry Martin #3	330′S 330′W NEc NW NE Sec. 4-2S-8E	Aux Vases	3175′	50	445′
C. E. Brehm Drilling & Producing	Mary Weedon et al #3	330′S 330′E NWc NE NE Sec. 4-2S-8E	Aux Vases	3173′	50	464′
Cullum & Lawhead	Sprague "B" #1	330′S 660′E NWc SE Sec. 4-2S-8E	Aux Vases	3208′	140	446′
A. Eron	Martin et al #1	330′S 330′W NEc SW¼ NW¼ Sec. 4-2S-8E	Aux Vases	3104′	50	433′
Estate of N. V. Duncan	James S. Johnston #1	330′S 330′E NW SW¼ NE¼ Sec. 16-2S-8E	Aux Vases	3310′	5	416′
Walter Pigorch	Jas. O. O'Malley #1	330′N 330′E SWc NW¼ NW¼	Aux Vases	3310′	100	480′
Nomo Petroleum Corp.	O. F. Simpson #3	330′S 330′W NEc SW NW Sec. 27-2S-8E	Aux Vases	3410′	280	425′
Nomo Petroleum Corp.	O. F. Simpson #4	330′S 330′W NEc SW SW NW Sec. 27-2S-8E	Aux Vases	3420′	75	432′
Pursie E. Pipes	E. P. Vaughan #2	330′N 330′E SWc SE NW Sec. 28-2S-8E		2240′		
Pep Drilling Co.	Caldwell-Smith Comm. #1	330′S 330′W NEc SW NW Sec. 23-2S-8E	Aux Vases	3425′	50	423′
Perry Fulk	Caldwell #B-2	330′N 330′E SWc NE NW Sec. 28-2S-8E	Aux Vases	3267′	20	406′
Sam Tipps	Clara Medler #2	330′N 330′E SWc NE Sec. 28-2S-8E	Aux Vases	3306′	150	422′
Pep Drilling Co.	E. P. Vaughan #2-A	350′N 330′E SWc SE NW Sec. 28-2S-8E	Aux Vases	3332′	50	439′
Pep Drilling Co.	E. P. Vaughan #3	330′S 330′W NEc SE NW Sec. 28-2S-8E	Aux Vases	3320′	50	418′
Pep Drilling Co.	E. P. Vaughan #4	330′S 330′E NWc SE NW Sec. 28-2S-8E	Aux Vases	3316′	50	426′
Walter Duncan	Vaughn-Harris #1	330′S 330′E NWc NE SW Sec. 28-2S-8E	St. Genier	3443′	39	428′
Nation Oil Co.	Rapp Estate #1	330′S 370′E NWc SW SE Sec. 31-2S-8E	Aux Vases	3486′	25	411′
Nation Oil Co.	Carson Oakley #1	660′N 330′E SWc SE NE Sec. 34-2S-8E	Rosiclare McClosky	3412′	5	433′
McKelvy & Sipoha	Rena Damon #1	330′S 330′E NWc SE NW Sec. 36-2S-8E		2420′		
National Associated Petroleum Co.	Leach-Mounts Unit #1	430′N 330′E SWc NE Sec. 9-2S-9E	Aux Vases	3370′	62	385′
R. F. Rainey	P. S. Bunnage #2	330′S 330′E NWc NE NW Sec. 24-2S-9E	Aux Vases	3344′	80	
Kathryn L. Cooper	E. L. Michels #1	330′S 330′W NEc SW¼ NW¼ Sec. 24-2S-9E	O'Hara	3330′	20	431′
R. F. Rainey	Parks #1	330′S 330′E NWc SE NW Sec. 24-2S-9E	Aux Vases	3371′	180	454′

Illinois Mid-Continent Oil Co.	Dale Moore #2-B	330′S 330′E NWc SE NW Sec. 25-2S-9E	Aux Vases	3360′	80	417′
Illinois Mid-Continent Oil Co.	J. H. Piercy #2	330′N 330′E SWc NE¼ NW¼ Sec. 25-2S-9E	Aux Vases	3242′	70	417′
New Illinois Mid-Continent Oil Co.	Norman Piercy #2-B	330′S 330′W NEc SW¼ NW¼ Sec. 25-2S-9E	Aux Vases	3390′	40	411′
Illinois Mid-Continent Co.	A. E. Seifert #3	330′S 330′W NEc SW SE Sec. 25-2S-9E	Aux Vases	3394′	200	426′
Skiles Oil Corp.	O'Daniel "B" #1	330′S 330′W NEc SW¼ NE¼ Sec. 26-2S-9E	Benoist Aux Vases	3247′	25	426′
N. V. Duncan	James P. Lewis et al #1	330′N 330′W SEc NW¼ NE¼ Sec. 30-2S-9E	McClosky Aux Vases	3420′	280	420′
Goodman Oil Co.	H. S. Wagner #3	15′N 330′W SEc SW NE Sec. 30-2S-9E	Aux Vases	407′	30	407′
Cities Service Oil Co.	Golden Gate Unit #18	330′N 330′E SWc SE¼ SE¼ Sec. 32-2S-9E	O'Hara	3360′	11	382′
Sam Tipps	W. B. Fox #1	330′N 330′E SWc SE¼ SW¼ Sec. 17-3S-8E	McClosky	3419′	60	390′
National Associated Petroleum Co.	Leach-Mounts Unit #2	330′S 330′W NEc NW¼ NE¼ Sec. 9-2S-9E	Aux Vases	3408′	12	388′
Alva C. Davis	Orien B. Winters #1	330′N 330′E SWc Sec. 13-2S-9E	Aux Vases	3399′	50	455′
Alva C. Davis	Orin B. Winters #3	330′N 330′W SEc SW SW Sec. 13-2S-9E	Aux Vases	3390′	50	455′
Illinois Mid-Continent Co.	Virgil Woods #3	330′N 330′E SWc SE SW Sec. 13-2S-9E	Aux Vases	3397′	50	451′
Shure Oil Co.	Arvel Mann #1	330′N 330′W SEc SW¼ SE¼ Sec. 14-2S-9E	Aux Vases	3326′	250	439′
Nation Drilling Co.	Clella Penner #1	330′N 330′W SEc Sec. 14-2S-9E	Aux Vases	3293′	120	461′
Kathryn Cooper	Clella Penner #2	330′N 330′E SWc SE SE Sec. 14-2S-9E	Aux Vases	3282′	200	448′
Shure Oil Co.	Wayburn Kerr #1 Comm.	465′N 330′E SWc SW¼ NW¼ NE¼ Sec. 16-2S-9E	Aux Vases	3299′	200	379′
Illinois Mid-Continent Oil Co.	Roy Johnson #2	330′S 330′E NWc SE NW Sec. 16-2S-9E	Aux Vases	3386′	15	376′
Illinois Mid-Continent Oil Co.	Tondini-Kerr Comm. #2	330′N 330′W SEc NE¼ NW¼ Sec. 16-2S-9E	Aux Vases	3291′	50	381′
Edward T. Robinson	Deletis Green #1	330′N 330′W SEc SW¼ Sec. 22-2S-9E	Aux Vases	3377′	100	411′
Kathryn Cooper	Henry J. Arney #1	330′S 330′W NEc NW¼ NE¼ Sec. 23-2S-9E	Aux Vases	3262′	120	428′
Kathryn Cooper	Henry J. Arney #2	990′S 330′W NEc NW NE Sec. 23-2S-9E	Aux Vases	3260′	200	423′
Kathryn Cooper	Jones-Penner Communitized #1	330′S 330′E NWc NE¼ NE¼ Sec. 23-2S-9E	Aux Vases	3268′	170	436′
Shure Oil Co.	Clyde E. Winter #1	330′N 330′W SEc NE NE Sec. 23-2S-9E	Aux Vases	3315′	100	430′
Tuley & Carter	Shelton #2	330′S 330′W NEc SE NE Sec. 5-3S-9E	O'Hara McClosky	3306′	34	394′
Cities Service Oil Co.	Zuber #2	330′N 330′E SWc SE NW Sec. 5-3S-9E	McClosky	3384′	-------	380′
Illinois Mid-Continent Co.	P. G. Rapp, Trustee #1	330′S 330′W NEc SW Sec. 5-3S-9E	Aux Vases	3446′	80	456′
The Nation Oil Co.	Zuber-Pollard #2	330′S 330′W NEc NW Sec. 5-3S-9E	McClosky	3400′	44	384′
National Associated Petroleum Co.	Lloyd Masterson et al #1	330′N 660′W SEc Sec. 6-3S-9E	Aux Vases	3461′	10	465′
Goodman Oil Co.	E. P. Hallam #2	330′S 330′W NEc Sec. 8-3S-9E	Aux Vases	3480′	10	464′
Nation Oil Co.	H. C. Scheldt #1	330′N 330′E SWc NE Sec. 8-3S-9E	Aux Vases	3315′	82	437′
White County						
Pure Oil Co.	C. B. Daubs #2	330′S 330′E NWc SE Sec. 29-1S-8E	Aux Vases	3325′	3	522′
Pure Oil Co.	A. L. Milbrune #1	330′N 330′W SEc SW NE Sec. 29-1S-8E	Aux Vases	3286′	141	522′
Pure Oil Co.	A. L. Milburn #2	330′N 330′E SWc SE NE Sec. 29-1S-8E	Aux Vases	3324′	291	507′
Pure Oil Co.	A. L. Milburn #3	300′S 280′E NWc SE NE Sec. 29-1S-8E	Aux Vases	3270′	159	507′
Pure Oil Co.	M. A. Matthews #1	330′N 330′E SWc NE Sec. 29-1S-8E	O'Hara	3322′	34	526′
Pure Oil Co.	S. E. Kinney #1	330′S 330′W NEc SE NE Sec. 29-1S-8E	Aux Vases	3310′	290	497′
Pure Oil Co.	S. E. Kinney #2	330′N 330′W SEc NE Sec. 29-1S-8E	Aux Vases	3232′	80	495′
Pure Oil Co.	Ellis Cons. #1	330′N 330′E SWc NE SE Sec. 29-1S-8E	McClosky	3356′	38	482′
Pure Oil Co.	Ellis Consolidated #2	330′S 330′E NWc NE SE Sec. 29-1S-8E	Aux Vases	3240′	587	497′
Pure Oil Co.	Walter Andrews #1	330′N 330′E SWc NE NE Sec. 29-1S-8E	Aux Vases	3336′	218	508′
Pure Oil Co.	Walter Andrews #2	330′N 330′W SEc NE NE Sec. 29-1S-8E	Aux Vases	3240′	150	497′
Nation Drilling Co.	Curtiss Merritt Comm. #1	333′N 307′E SWc SE NW Sec. 20-3S-8E	Aux Vases	3471′	1½	387′
Nation Drilling Co.	Miller-Andrews #2	330′S 330′E NEc NW Sec. 29-3S-8E	Aux Vases	3420′	93	381′

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
WHITE COUNTY—Continued						
Nation Drilling Co.	Charles L. Newby #1	330′S 330′E NWc SE NW Sec. 31-3S-8E	O'Hara	3368′	70	380′
Gulf Refining Co.	Crate #6	330′S 330′E NWc SE Sec. 34-3S-9E	Aux Vases Rosiclare	3440′	188	451′
P. O. Wall	Hatcher #6-A (A twin 30 feet North of #6)	360′N 330′W SEc NE Sec. 22-3S-10E	Cypress	3194′	-----	435′
P. O. Wall	Hatcher #9	330′S 380′W NEc SE NE Sec. 22-3S-10E	Cypress	3158′	125	410′
Estate of N. V. Duncan	Shaw Heirs #3	330′N 330′W SEc NE NE Sec. 22-3S-10E	Cypress	3209′	120	403′
Lawton Hedrick	Carter #1	330′N 330′E SWc NW NW Sec. 23-3S-10E	Cypress	3105′	145	398′
Don Baines	N. Hortin #1	330′N 330′E SWc SE NE Sec. 24-3S-10E	McClosky	3155′	2	427′
Burr Lambert	William Griesbaum #6	330′N 330′E SWc NE NW Sec. 26-3S-10E	Biehl	1914′	65	1914′
Burr Lambert	William Griesbaum #7	330′N 280′E SWc NE NW Sec. 26-3S-10E	Benoist	3102′	75	410′
Burr Lambert	William Griesbaum #8	330′N 330′W SEc NW NW Sec. 26-3S-10E	Benoist	3097′	150	395′
Paco Petroleum Corp.	Frank Millar #2	330′S 330′W NEc NE SE NW Sec. 26-3S-10E	Benoist	2960′	60	404′
Paco Petroleum Corp.	Frank Millar #3	330′N 330′W SEc NW Sec. 26-3S-10E	Benoist	2964′	60	402′
E. H. Morris	E. H. Morris #1	330′N 330′E SWc NW NW Sec. 30-3S-11E	Benoist O'Hara	3140′	125	-----
E. H. Morris	E. H. Morris (Fee) #2	330′N 990′E SWc NW NW Sec. 30-3S-11E	Benoist	3140′	50	445′
E. H. Morris	E. H. Morris Fee #3	280′S 1025′E NWc Sec. 30-3S-11E	Cypress Benoist	3125′	50	434′
R. A. Harris	Clarence Seifried "A" #1	330′N 330′E SWc SE NW Sec. 30-3S-11E	Benoist	3086′	150	406′
R. A. Harris	Clarence Seifried #B-1	990′S 330′E NWc NE SW Sec. 30-3S-11E	Benoist	2861′	189	401′
R. A. Harris	Clarence Seifried #B-2	990′S 380′E NWc NE SW Sec. 30-3S-11E	Biehl	1850′	25	401′
Magnolia Petroleum Co.	Arthur Cleaveland #3	330′S 330′E NWc NW NW NW Sec. 31-3S-11E	Bethel	3181′	61	436′
Arrow Drilling Co.	Hon E-9	330′N 330′E SWc NW SW Sec. 33-3S-14W	Benoist Aux Vases	2832′	125	382′
Sam Tipps	Virginia Buck #1	330′S 330′W NWc NE SW Sec. 6-4S-8E	Aux Vases	3359′	175	379′
Nation Oil Co.	Clarence H. Belva #4-A	634′S 330′W NEc NW Sec. 6-4S-8E	Aux Vases	3420′	18	381′
Nation Oil Co.	Emma Hannagan #3	330′N 330′W SEc SW NW Sec. 6-4S-8E	Aux Vases	3426′	38	380′
Sam Tipps	N. W. Jamerson #1	330′S 330′E NWc SW Sec. 6-4S-8E	Aux Vases	3350′	150	380′
Sam Tipps	N. W. Jamerson #2	330′S 330′W NEc NW SW Sec. 6-4S-8E	Aux Vases	3290′	200	379′
Nation Oil Co.	Tullis #1	330′S 330′E NWc SW NW SW Sec. 6-4S-8E	Aux Vases	3258′	80	379′
Nation Oil Co.	Tullis #2	330′N 330′W SEc NW SW Sec. 6-4S-8E	Aux Vases	3274′	86	380′
Sam Tipps	Evelyn White #1	330′N 330′E SWc SE NW Sec. 6-4S-8E	Aux Vases	3348′	125	380′
C. C. Buse	Edgar Meritt #1	330′N 330′E SWc SW NW SW Sec. 5-4S-9E	McClosky	3472′	50	401′
Superior Oil Co.	Harvey E. Tate #1	330′N 330′E SWc NW Sec. 5-4S-9E	Aux Vases	3698′	7	403′
Whaley Oil Corp.	Brown #B-1	330′N 330′W SEc Sec. 12-4S-9E	Cypress	2925′	12	-----
Murvin & Steber	Staley-Baird Comm. #1	330′S 99′W NEc SE Sec. 12-4S-9E	Cypress	2980′	120	-----
Murvin & Steber	Scudamore-Randolph Comm. #1	330′S 330′W NEc Sec. 13-4S-9E	Cypress	3200′	87	384′
Skelly Oil Co.	C. R. Bryant #10	330′S 330′E NWc SE SW Sec. 7-4S-10E	Cypress Aux Vases	3244′	100	405′

Murvin & Steber	Enfield School District #2	330'S 990'W NEc SW SW Sec. 7-4S-10E	Cypress	2962'	120	397'
Murvin & Steber	L. K. Jones #2	330'N 990'W SEc SW NW Sec. 7-4S-10E	Cypress	2980'	200	423'
Gulf Refining Co	J. W. Carter #7	330'N 330'E SWc NE NW Sec. 18-4S-10E	McClosky	3232'	148	391'
Gulf Refining Co	J. W. Carter #8	330'S 330'E NWc NE NW Sec. 18-4S-10E	McClosky Paint Creek Cypress	3261'	225	406'
Gulf Refining Co	J. W. Carter #9	330'N 330'W SEc NE NW Sec. 18-4S-10E	Aux Vases	3088'	132	368'
Gulf Refining Co	J. W. Carter #10	380'S 330'W NEc NW Sec. 18-4S-10E	Cypress Paint Creek	3028'	156	379'
Phillips Petroleum Co	Flora #6	388'S 893'E NWc SE Sec. 24-4S-10E	McClosky	1396'	8	442.8'
L. F. Wilson	Clarence Campbell #1	330'S 330'W SEc Sec. 31-4S-10E	Aux Vases O'Hara	3124'	70	367'
Magnolia Petroleum Co	Louisa E. Brandt #1	330'N 330'E SWc SE Sec. 32-4S-10E	McClosky	3254'	31	392'
L. F. Wilson	Rose #1	330'N 730'E SWc SW Sec. 32-4S-10E	Rosiclare Aux Vases	3120'	190	375'
George & Wrather Oil Co	William L. Rose #1	330'N 330'E SWc SE SW Sec. 32-4S-10E	Aux Vases Rosiclare	3208'	200	376'
L. F. Wilson	William L. Rose #2	330'N 330'E SWc Sec. 32-4S-10E	Aux Vases Rosiclare	3125'	80	374'
National Associated Petroleum Co	John C. Spencer "B" #1	330'S 660'W NEc NW Sec. 35-4S-10E	Aux Vases	3118'	13	395'
West Drilling Co	Johnson #1	330'N 990'W SEc N½ Sec. 19-4S-11E	Aux Vases O'Hara	3104'	70	453'
West Drilling Co	Radford M. Johnson #2	330'S 235'W NEc Frac. SE Sec. 19-4S-11E	Aux Vases	3043'	50	456'
Skiles Oil Corp	Nellie Owen #2	330'S 330'W NEc NW Sec. 29-4S-14E	Aux Vases	3082'	90	370'
Tide Water Associated Oil Co	O. R. Evans Well #16	330'S 551'E NWc NE NW Sec. 4-4S-10E	Biehl	1893'	75	378'
Tide Water Associated Oil Co	O. R. Evans #17	330'S 330'W NEc NW NW Sec. 4-4S-14W	Biehl	1888'	35	383'
Gulf Refining Co	G. Parson #6	330'N of South Line 990'E of West Line of Frac. SW Sec. 7-4S-14W	Aux Vases	2915'	69	410'
Gulf Refining Co	G. Parson #7	330'S North Line 330'E of West Line of Frac. SW SW Sec. 7-4S-14W	Paint Creek	2900'	60	440'
Coy Oil, Inc	Allen W. Gray, Estate #A-1	330'N 330'W SEc SW Sec. 20-4S-14W	Aux Vases	2935'	400	380'
Coy Oil, Inc	Allen W. Gray, Estate #A-2	990'N 330'W SEc SW Sec. 20-4S-14W	Aux Vases	2932'	120	381'
Coy Oil, Inc	Allen W. Gray, Estate #2	990'N 990'E SWc SE Sec. 20-4S-14W	Aux Vases	2890'	43	367'
Coy Oil, Inc	Allen W. Gray, Estate #3	1650'N 990'E SWc SE Sec. 20-4S-14W	Aux Vases	2882'	250	381'
Barron Kidd	Allen Gray "H" #3	330'N 330'E SWc NE SE Sec. 20-4S-14W	Aux Vases Benoist	2886'	120	371'
Coy Oil, Inc	Allen W. Gray Estate #4	2310'N 990'E SWc SE Sec. 20-4S-14W	Benoist	2895'	28	369'
Coy Oil, Inc	Allen W. Gray Estate #5	2310'N 330'E SWc SE Sec. 20-4S-14W	Aux Vases	2914'	200	381'
Coy Oil, Inc	Allen W. Gray Estate #6	330'N 330'E SWc SE Sec. 20-4S-14W	Aux Vases	2907'	1200	366'
Coy Oil, Inc	Allen W. Gray Estate #7	990'N 330'E SWc SE Sec. 20-4S-14W	Aux Vases	2915'	--------	357'
Coy Oil, Inc	Allen W. Gray Estate #8	990'S 330'E NWc SE Sec. 20-4S-14W	Aux Vases	2918'	--------	381'
Calstar Petroleum Co	Wilma Gray et al #5	330'N 990'E SEc Sec. 20-4S-14W	Aux Vases	2876'	362.77	370'
Calstar Petroleum Co	Wilma Gray et al #6	330'N 330'W SEc Sec. 20-4S-14W	Aux Vases	2876'	160	373'
Superior Oil Co	Harry C. Ford #11	990'N 330'E SWc NE Sec. 22-4S-14W	Aux Vases	2919'	30	375'
Superior Oil Co	Harry C. Ford #12	925'N 990'W SEc NE Sec. 22-4S-14W	Aux Vases	2872'	88	374'
Superior Oil Co	E. M. Fitton #A-34	330'S 330'W NEc SW NE Sec. 29-4S-14W	Aux Vases	2889'	36	371'
V. R. Gallagher	E. S. Jacobs #3	315'N 155'W SEc NE NE Sec. 29-4S-14W	Aux Vases	2870'	--------	--------
Superior Oil Co	Westfall-Fitton Unit #1	330'S 330'E NWc NE Sec. 29-4S-14W	Aux Vases	2856'	563	366'
Superior Oil Co	Westfall-Fitton Unit #2	990'S 330'E NWc NE Sec. 29-4S-14W	Aux Vases	2886'	95	367'
Superior Oil Co	Westfall-Fitton Unit #3	330'S 330'E NWc SW NE Sec. 29-4S-14W	Aux Vases	2897'	100	375'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
WHITE COUNTY—Continued						
Superior Oil Co	E. M. Fitton #A-31	990'S 330'W NEc NW NE Sec. 29-4S-14W	Aux Vases	3834'	222	369'
Superior Oil Co	E. M. Fitton #A-32	330'S 330'W NEc NW NE Sec. 29-4S-14W	Aux Vases	2876'	310	369'
Superior Oil Co	E. M. Fitton #A-33	570'N 250'E SWc NE NE Sec. 29-4S-14W	Aux Vases	2876'	164	373'
Superior Oil Co	E. M. Fitton #A-35	155'S 370'E NWc SE NE Sec. 29-4S-14W	Aux Vases	2879'	53	371'
V. R. Gallagher	E. S. Jacobs #2	330'S 595'W NEc Sec. 29-4S-14W	Aux Vases	2879'	200	363'
Skiles Oil Corp	Nellie Owen #1	330'N 330'W SEc NE NW Sec. 29-4S-14W	Aux Vases	2891'	65	367'
Sun Oil Co	E. R. Greathouse #51	330'N 330'E SWc SE SW Sec. 32-4S-14W	Aux Vases	2945'	65	384'
Gulf Refining Co	Henry Gates #2	330'S 330'W NEc SE Sec. 4-5S-9E	Aux Vases	3236'	52	429'
Texas Co	A. Hubele NCT-1 #1	330'N 330'E SWc SE SW Sec. 7-5S-9E	McClosky	3321'	30	389'
Texas Co	Raymond Moore #2	330'S 330'W SEc NE SW Sec. 7-5S-9E	McClosky	3324'	263	388'
Texas Co	Raymond Moore #3	330'S 330'W NEc SW SW Sec. 7-5S-9E	McClosky	3317'	44	388'
Texas Co	Alex Nibbling #1	330'S 330'E NWc SW SE Sec. 7-5S-9E	McClosky	3317'	92	387'
Tom K. Whittington	Ella B. Barnes #1	330'N 330'E SWc NE Sec. 24-5S-9E	Cypress	2810'	2	384'
Noah Petroleum Co	Delbert Newell #2	330'S 330'W NEc NW Sec. 5-5S-10E	Aux Vases	3105'	205	371'
Texas Co	C. W. Spencer #1	330'S 330'E NWc SW NE Sec. 5-5S-10E	--------	------	------	------
Texas Co	J. A. Jacobs #1	330'S 357'W NEc SE NW Sec. 5-5S-10E	Aux Vases	3077'	98	376'
Texas Co	J. A. Jacobs #2	330'S 330'E NWc SE NW Sec. 5-5S-10E	Aux Vases	3124'	73	375'
L. F. Wilson	Wm. Seitz #1	330'S 330'W NEc SE NE Sec. 6-5S-10E	O'Hara	3210'	40	374'
Walter Duncan	Stockhowe #1	330'S 330'E NWc SW SW Sec. 6-5S-10E	Cypress	3305'	2½	386'
Eastern Petroleum Co	Clarence Rice #1	990'S 990'E NWc SW Sec. 22-5S-10E	Palestine Clore	3122'	56	397'
Eastern Petroleum Co	Clarence Rice #3	330'S 330'W NEc NW SW Sec. 22-5S-10E	Palestine	2155'	30	391'
Toklan Producing Co	Frank S. Ackerman #1	330'N 990'W SEc SE Sec. 23-5S-10E	Rosiclare	3117'	178	374'
Toklan Producing Co	Frank S. Ackerman #2	330'N 330'W SEc Sec. 23-5S-10E	O'Hara	3099'	136	373'
National Associated Petroleum Co	Jacobs Duvall #1	330'N 330'E SWc Sec. 24-5S-10E	Rosiclare	3054'	100	372'
Herndon Drilling Co	Glenna Brown #12-A	330'N 330'E SWc NW Sec. 25-5S-10E	Benoist	3000'	97	371'
Toklan Producing Co	F. H. Ackerman #1	330'N 330'W SEc NE NE Sec. 26-5S-10E	Rosiclare	3108'	273	373'
Toklan Producing Co	F. H. Ackerman #2	330'S 330'W NEc SW NE Sec. 26-5S-10E	Rosiclare	3110'	271.44	373'
First National Petroleum Trust	Charles F. Roser #1	330'N 330'W SEc NE Sec. 26-5S-10E	Aux Vases	3093'	30	372'
First National Petroleum Trust	Charles F. Roser #2	330'S 330'W NEc SE NE Sec. 26-5S-10E	Rosiclare	3066'	42	371'
First National Petroleum Trust	Charles F. Roser #3	330'S 330'E NWc SE NE Sec. 26-5S-10E	Rosiclare	3039'	45	372'
Toklan Producing Co	S. A. Portee #1	330'S 990'E NWc NE Sec. 26-5S-10E	Rosiclare O'Hara	3122'	250.80	373'
National Associated Petroleum Co	Hanna-Smith Comm. #2	330'S 660'W NEc Sec. 28-5S-10E	Clore	2430'	153	394'
Arrow Drilling Co	Brown #1	330'N 330'W SEc SE NE Sec. 34-5S-9E	Pennsylvanian	3302'	10	369'
Keystone Oil Co	Garner "A" #1	430'S 330'W NEc SW Sec. 1-5S-10E	Degonia	1971'	--------	395'
Keystone Oil Co	Garner "A" #3	330'N 330'W SEc NE SW Sec. 1-5S-10E	Degonia	1962'	38	394'
Keystone Oil Co	Garner "C" #1	330'N 330'W SEc NW Sec. 1-5S-10E	Degonia	2000'	3/10	412'
Keystone Oil Co	Nelson #1	330'S 330'E NWc NE SE Sec. 1-5S-10E	Degonia	1940'	30	380'

Keystone Oil Co	Nelson #2	330'S 330'W NEc SE Sec. 1-5S-10E	Tar Springs Degonia	2198'	35	378'
Keystone Oil Co	Nelson #3	330'N 330'E SWc NE SE Sec. 1-5S-10E	Degonia	1937.5'	40	380'
W. B. Phillips	G. Renshaw #3	990'S 330'W NEc SE NE Sec. 1-5S-10E	Degonia Tar Springs	2248'	------	------
Texas Co	H. J. Botsch #1	330'S 330'W NEc SW NW Sec. 5-5S-10E	Aux Vases Rosiclare	3122'	64	376'
Texas Co	G. J. Botsch #1	330'N 330'W SEc NW NW Sec. 5-5S-10E	Aux Vases	3118'	172	377'
Texas Co	G. J. Botsch #2	330'S 330'W NEc NW NW Sec. 5-5S-10E	Rosiclare Aux Vases	3123'	40	381'
Texas Co	H. J. Botsch #2	330'S 330'E NWc SW NW Sec. 5-5S-10E	Aux Vases Rosiclare	3130'	10	378'
Texas Co	Botsch Unit #1	360'N 330'E SWc NE NW Sec. 5-5S-10E	Aux Vases	3030'	106	376'
Texas Co	Botsch Unit #2	330'S 330'E NWc NE NW Sec. 5-5S-10E	Rosiclare O'Hara Aux Vases	3115'	246	376'
Magnolia Petroleum Co	Lenora Cralley #1	330'S 410'E NWc SE Sec. 5-5S-10E	Rosiclare	3235'	61	378½'
Herndon Drilling Co	Land #3	330'S 330'E NWc NE SW Sec. 31-5S-10E	Aux Vases	3047'	100	422'
National Associated Petroleum Co	Johnson-Ackerman Unit #1	330'N 330'W SEc NE SE Sec. 35-5S-10E	Aux Vases	3191'	14	371'
National Associated Petroleum Co	Bohleber-Johnson Unit #2	330'S 990'W NEc Sec. 35-5S-10E	Aux Vases	3153'	346	371'
National Associated Petroleum Co	Johnson-Ackerman Unit #2	330'N 330'E SWc SE Sec. 35-5S-10E	Aux Vases	3150'	18	------
National Associated Petroleum Co	Minnie Bohleber #1	330'N 330'W SEc NE NE Sec. 35-5S-10E	Aux Vases	2955'	75	------
National Associated Petroleum Co	Harriet L. Clark #1	330'N 330'E SWc SE NW Sec. 36-5S-10E	Aux Vases	3050'	13	368'
National Associated Petroleum Co	Harriett L. Clark #2	330'S 330'W NEc SE NW Sec. 36-5S-10E	Aux Vases	3050'	8	372½'
National Associated Petroleum Co	Walter Hines #1	330'S 330'E NWc NE SW Sec. 36-5S-10E	Aux Vases	3110'	62	371'
Superior Oil Co	E. S. Greathouse #22	330'S 330'E NWc SW NW Sec. 3-5S-14W	Aux Vases Bethel Cypress	2840'	317	365'
Superior Oil Co	E. S. Greathouse #23	330'S 930'E NWc Sec. 3-5S-14W	Bethel Aux Vases	2844'	7	369'
Superior Oil Co	E. S. Greathouse #24	330'N 680'E SWc NW NW Sec. 3-5S-14W	Cypress Bethel Aux Vases	2849'	118	370'
Superior Oil Co	H. C. Ford et al #39	280'N 330'W SEc SW SE Sec. 4-5S-14W	Bethel Aux Vases	2860'	87	365'
Superior Oil Co	H. C. Ford et al #44	470'N 990'E SWc Sec. 4-5S-14W	Bethel Aux Vases	2940'	155	370'
Superior Oil Co	H. C. Ford et al #45	330'N 990'W SEc Sec. 4-5S-14W	Tar Springs Bethel Aux Vases	2935'	408	363'
Superior Oil Co	H. C. Ford et al #46	330'N 330'W SEc Sec. 4-5S-14W	Tar Springs Bethel Aux Vases	2872'	215	365'
Superior Oil Co	H. C. Ford et al #49	330'N 330'E SWc Sec. 3-5S-14W	Bethel Aux Vases	2868'	312	365'
Superior Oil Co	H. C. Ford et al #51	960'S 300'E NWc NW SE Sec. 4-5S-14W	Cypress Bethel Aux Vases	2862'	95	369'
Superior Oil Co	H. C. Ford et al #43	330'S 330'W NEc NW NE Sec. 8-5S-14W	Aux Vases McClosky	2962'	45	371'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
WHITE COUNTY—Continued						
Superior Oil Co.	H. C. Ford et al #41	1620'S 990'E NWc Sec. 9-5S-14W	McClosky Tar Springs Aux Vases	2940'	66	363'
Superior Oil Co.	H. C. Ford et al #47	330'S 990'W NEc Sec. 9-5S-14W	Aux Vases	2873'	125	361'
Superior Oil Co.	H. C. Ford et al #48	330'S 330'E NWc NE NW Sec. 9-5S-14W	Aux Vases	2950'	562	366'
Superior Oil Co.	H. C. Ford et al #50	330'S 330'W NEc Sec. 9-5S-14W	Aux Vases Bethel Tar Springs	2873'	192	359'
Clark & Clark	Charles Ford et al #1	330'N 330'W SEc SW SW Sec. 18-5S-14W	Aux Vases	3000'	424	370'
Clark & Clark	Fred Henning #1	330'S 330'E NWc NE NW Sec. 19-5S-14W	Aux Vases	2990'	338	372'
Clark & Clark	Fred Henning #2	990'S 330'E NWc NE NW Sec. 19-5S-14W	Aux Vases	3000'	960	365'
Clark & Clark	Fred Henning #3	990'N 330'E SWc SE NW Sec. 19-5S-14W	Aux Vases	3000'	25	370'
Ryan Oil Co.	Richard Henning #2	330'S 330'W NEc SW NW Sec. 19-5S-14W	Aux Vases	2988'	120	368'
Ryan Oil Co.	Richard Henning #4	330'S 330'E NWc SW NW Sec. 19-5S-14W	Aux Vases	2962'		365'
Clark & Clark	Richard Henning et al #1	330'S 330'W NEc NW NW Sec. 19-5S-14W	Aux Vases	3050'	400	370'
Clark & Clark	Richard Henning et al #2	990'S 330'W NEc NW NW Sec. 19-5S-14W	Aux Vases	3000'	398	
Bonnelli Oil Division	Rosselot #1-A	330'N 330'W SEc SW NW Sec. 13-6S-8E	McClosky	3143'	50	408'
Bonnelli Oil Division	Robinson-Rosselot Comm. #1	330'S 330'W SEc SE NW Sec. 13-6S-8E	Cypress McClosky	3154'	175	417'
Bonnelli Oil Division	Robinson-Rosselot Comm. #2	330'N 330'W SEc NE NW Sec. 13-6S-8E	Cypress	2722'	42	419'
Carter Oil Co.	Orville Poole #9	330'S 330'W NEc SE SE Sec. 24-6S-8E	Rosiclare Aux Vases	3116'	51	475'
Clark & Clark	Leo Raney #3	330'S 350'W NEc SE Sec. 24-6S-8E	Pennsylvanian	1400'	98	458'
Clark & Clark	Otto Catlin et al #1	330'S 330'E NWc SE Sec. 25-6S-8E	Cypress	3114'	100	476'
Calvert Drilling Inc.	Greer Comm. #2	330'S 330'E NWc NE SW Sec. 25-6S-8E	Tar Springs	2349'	13	462'
C. E. Brehm Drilling & Producing	C. Harper et al Comm. #1	330'S 330'W NEc SE SE Sec. 32-6S-8E	Rosiclare Aux Vases	3129'	40	410'
National Associated Petroleum Co.	Gilbert Wade #1	330'N 330'W SEc NE SE Sec. 32-6S-8E	Aux Vases	3121'	685	408'
National Associated Petroleum Co.	Gilbert Wade #3	330'N 330'E SWc NE SE Sec. 32-6S-8E	Aux Vases Rosiclare	3130'	10	378'
National Associated Petroleum Co.	Gilbert Wade #2	330'S 330'W NEc NE SE Sec. 32-6S-8E	McClosky	3214'	174	392'
National Associated Petroleum Co.	Gilbert Wade #3	330'N 330'W SEc SE NE Sec. 32-6S-8E	Aux Vases	3132'	15	395'
Tom K. Whittington	Delap #1	330'N 330'E SWc SE NW Sec. 33-6S-8E	St. Genevieve	3156'	24	419'
Tom K. Whittington	Delap #2	330'S 330'E NWc SE NW Sec. 33-6S-8E	Paint Creek	3160'		421'
Evans & Dolly	George Aud #2	330'N 330'E SWc SE Sec. 35-6S-8E	Aux Vases	3028'	240	
Evans & Dolly	George Aud #3	330'N 330'E SWc NW SE Sec. 35-6S-8E	Aux Vases	3003'	130	4490'
Evans & Dolly	Jesse Schoemann #1	330'S 330'W NEc SE SW Sec. 35-6S-8E	Aux Vases	3058'	250	460'
Evans & Dolly	Jesse Schoemann #2	330'N 330'W SEc SW Sec. 35-6S-8E	Aux Vases	2992'	240	4380'
A. Eron	C. F. Doerner #1	330'N 330'E SWc SE NW Sec. 36-6S-8E	Tar Springs	3044'	50	444'

A. Eron	Raymond Johnson #1	330'N 330'W SEc SW NW Sec. 36-6S-8E	Aux Vases	3075'	250	468'
A. Eron	Raymond Johnson #2	990'S 330'E NWc SW NW Sec. 36-6S-8E	Aux Vases	3055'	100	455'
Calvert Drilling, Inc	Brad Powell #1	330'S 330'W NEc NW NW Sec. 36-6S-8E	Tar Springs	2344'	24	445'
Clark & Clark	Otto Catlin et al #3	330'S 350'E NWc SW Sec. 19-6S-9E	Pennsylvanian	1420'	80	479'
Paul S. Knight	O. W. Phillips #1	330'N 330'W SEc SW NW Sec. 19-6S-9E	Cypress	3060'	30	453'
Q. B. Mitchell	L. H. Bayley #2	330'N 330'E SWc SE Sec. 34-6S-9E	Aux Vases O'Hara	3105'	110	457'
Pure Oil Co	H. W. Holland A-#3	330'S 330'W NEc SE SW Sec. 34-6S-9E	Aux Vases	3010'	82	503'
Q. B. Mitchell	Pearl Newcomb et al #1	330'N 365'W SEc SW SE Sec. 34-6S-9E	Aux Vases	2969'	35	479'
Tom K. Whittington	Delap Comm. #1	330'N 330'W SEc SW NW Sec. 33-6S-8E	Cypress Paint Creek	3160'	110	412'
Tom K. Whittington	Delap Comm. #2	330'S 451'W NEc SW NW Sec. 33-6S-8E	Paint Creek Cypress	2795'	72	414'
Tom K. Whittington	Delap Comm. #4	330'S 330'E NWc SW NW Sec. 33-6S-8E	Aux Vases	3274'	86	380'
C. E. Brehm Drilling & Producing	Forrester Comm. #1	330'S 330'W NEc SW SW Sec. 33-6S-8E	Cypress	3034'	80	443'
C. E. Brehm Drilling & Producing	Forrester Comm. #2	330'S 330'W NEc NW SW SW Sec. 33-6S-8E	McClosky	3178'	40	425'
Tom K. Whittington	J. E. Harrell #1	330'S 330'E NWc SE SW Sec. 33-6S-8E	St. Genevieve	3205'	8.5	438'
Atlas Drilling Co	Herrell #3	330'N 330'E SWc NE SW Sec. 33-6S-8E	McClosky	3069'	200	426'
C. E. Brehm Drilling & Producing	Gertrude Martin Comm. #1	330'N 330'W SEc NW NW Sec. 33-6S-8E	Paint Creek	3148'	70	399'
C. E. Brehm Drilling & Producing	Gertrude Martin Comm. #2	330'S 330'W NEc NW NW Sec. 33-6S-8E	Aux Vases	3150'	60	410'
Pure Oil Co	Henderson Martin #7	330'N 330'W SEc NE SW Sec. 18-6S-9E	Aux Vases	3010'	18	425'
Atlas Drilling Co	Spence Comm. #1	330'N 990'W SEc NE NW Sec. 33-6S-8E	Paint Creek	3152'	40	413'
C. E. Brehm Drilling & Producing	Harry Yates et al Comm. #1	330'N 330'W SEc NW SW Sec. 33-6S-8E	Aux Vases	3006'	75	428'
C. E. Brehm Drilling & Producing	Harry Yates et al Comm. #3	330'S 330'E NWc SW Sec. 33-6S-8E	McClosky	3140'	240	397'
C. E. Brehm Drilling & Producing	Harry Yates et al Comm. #2	330'S 330'W NEc NW SW Sec. 33-6S-8E	McClosky	3131'	150	409'
C. E. Brehm Drilling & Producing	Harry Yates et al Comm. #4	330'N 441'E SWc NW SW Sec. 33-6S-8E	Cypress	3137'	125	411'
E. Paul DuPont, Jr., Trustee	A. J. Aud #1	330'S 330'E NWc SE SE Sec. 34-6S-9E	Cypress	2622'	125	422'
Wayne Misener Drilling Co	Austin #1	330'N 330'E SWc NW SW NW Sec. 26-6S-9E	Aux Vases	3098'	35	------
Atlas Drilling Co	A. G. Aud #1	418'N 418'E SWc SE NE Sec. 27-6S-9E	Aux Vases	3000'	30	422'
E. Paul DuPont Jr., Trustee	A. J. Aud #2	330'N 330'E SWc SE SE Sec. 34-6S-9E	Cypress	2623'	------	425'
The Carter Oil Co	Ivan McCallister #8	330'N 330'W SEc NE SW Sec. 34-6S-9E	Rosiclare Aux Vases Cypress	3102'	------	502'
The Pure Oil Co	Betsy Weasel #3	350'N 340'E SWc NW SE Sec. 34-6S-9E	Aux Vases O'Hara	3011'	28	478'
The Pure Oil Co	Betsy Weasel #1	330'N 330'W SEc NW SE Sec. 34-6S-9E	McClosky	3030'	99	459'
A. Eron	Neal Cutching et al #1-Comm	330'N 671'E SWc SE SW	Hardinsburg	3099'	------	371'
Q. B. Mitchell	Mary Wilson #1	330'S 330'E NWc SW SE Sec. 34-6S-9E	Aux Vases	2947'	350	453'
Skelly Oil Co	Palestine Sand Unit #33	410'N 330'W SEc Sec. 13-6S-10E	Palestine	2051'	------	387'
Magnolia Petroleum Co	Palestine Sand Unit Well #29, MP Co. & Skelly Oil Co., F. S. Ackerman #1	415'N 360'W SEc SW SW Sec. 13-6S-10E	Palestine	2045'	------	368'
Slagter Producing Co	Spilman #1	330'S 330'E NWc SE NE Sec. 16-6S-10E	Cypress	2675'	157	375'
E. F. Moran, Inc	Ben Watkins #1	330'N 330'W SEc NW NE Sec. 16-6S-10E	Cypress	3082'	27	370'
E. F. Moran, Inc	Ben Watkins #2	330'N 330'E SWc NE NE Sec. 16-6S-10E	Cypress	2666'	38	373'
Clark & Clark	Roscoe Embree #1	330'S 330'W NEc SE SE Sec. 28-6S-10E	Tar Springs	2294'	25	------
Evans & Dolly	Frank H. Ackerman et al #1-A	330'N 330'E SWc SE Sec. 33-6S-10E	Aux Vases	3063'	125	368'
C. E. Brehm Drilling & Producing	C. E. Brehm-Fee "F" #1-A	330'N 330'W SEc SW Sec. 33-6S-10E	Aux Vases	2916'	150	363'
Eastern Petroleum Co	Pearce Heirs #1	330'N 330'E SWc NW NW Sec. 35-6S-10E	Aux Vases	2980'	150	364'
Skiles Oil Corp	Etna Brown Alford "B" #1	70'S 990'E NWc SW SW SE Sec. 7-6S-11E	Cypress	2613'	1	360'
A. Eron	Edgar Johnson #1	330'S 360'E NWc NE SW Sec. 1-7S-8E	McClosky	3072'	------	481'

PRODUCING OIL WELLS—Continued
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
WHITE COUNTY—Continued						
Carter Oil Co.	George Cange #6	330′N 330′W SEc SW NE Sec. 2-7S-8E	Aux Vases	2981′	183	485′
The Carter Oil Co.	Lenora Cange #5	330′S 370′W NEc SE NW Sec. 2-7S-8E	Aux Vases	2975′	84	473′
The Carter Oil Co.	George Cange #5	330′S 330′W NEc SW NE Sec. 2-7S-8E	Aux Vases	3147′	168	477′
Mabee Petroleum Corp	G. W. Leathers #3	330′S 330′E NEc SE NE Sec. 2-7S-8E	Aux Vases	3031′	120	495′
Ivan White	J. B. Thompson et al #1-Comm	330′N 330′E SWc NE SW Sec. 8-7S-8E	Aux Vases	3087′	25	413′
Calvert Drilling, Inc	Johnson-Keck Comm. #1	330′S 330′E NWc SE SE Sec. 9-7S-8E	Aux Vases	3034′	34	449′
Rim Oil Co.	John Welch #1	380′S 330′W NEc SE Sec. 10-7S-8E	Aux Vases	2975′	120	408′
Tide Water Associated Oil Co.	Anna Baker #5	400′N 330′W SEc Sec. 11-7S-8E	Aux Vases	2910′	40	426′
Sinclair Oil & Gas Co.	Daniel P. McKenzie #4	330′S 330′W NEc SE Sec. 11-7S-8E	Mississippian	3051′	100	405′
Carter Oil Co.	Lenora Cange #3	330′N 330′E SWc SE NW Sec. 2-7S-8E	Aux Vases	3126′	552	454′
Carter Oil Co.	George Cange #4	330′S 370′E NWc SW NE Sec. 2-7S-8E	Aux Vases Bethel	2968′	204½	473′
Carter Oil Co.	Lenora Cange #4	330′S 330′E NWc SE NW Sec. 2-7S-8E	Aux Vases	2966′	612	461′
Carter Oil Co.	W. A. Hamilton #14	330′S 330′W NEc NW SE Sec. 2-7S-8E	Aux Vases	3044′	290	485′
Evans & Dolly	Ivory Edwards #1	330′S 330′E NWc NE Sec. 2-7S-8E	Aux Vases	2963′	50	454′
Carter Oil Co.	Mary Lamb #2	330′N 330′E SWc SW NE SW Sec. 2-7S-8E	Aux Vases	2929′	13	
Carter Oil Co.	Mary Lamb #4	330′S 330′E NWc NE SW Sec. 2-7S-8E	Aux Vases	2956′	294	458′
Mabee Petroleum Corp	G. W. Leathers #4	330′N 330′E SWc SE NE Sec. 2-7S-8E	Aux Vases	3050′	75	494′
Ivan H. White	Martin Comm. #1	380′S 330′W NEc SW SW Sec. 2-7S-8E	Aux Vases	3053′	120	444′
Ivan H. White	Martin Comm. #2	330′N 330′E SWc Sec. 2-7S-8E	Aux Vases	2952′	400	423′
Ivan H. White	Martin Comm. #3	330′N 330′W SEc SW SW Sec. 2-7S-8E	Aux Vases	2951′	110	424′
Ivan H. White	Martin Comm. #4	330′S 365′E NWc SW SW Sec. 2-7S-8E	Aux Vases	2958′	400	435′
Ivan White	John Newcomb #1	245′S 330′W NEc SW NW Sec. 2-7S-8E	Aux Vases	3024′	100	463′
Ivan White	John Newcomb #2	255′N 330′W SEc NW NW Sec. 2-7S-8E	Aux Vases	3042′	50	463′
Ivan White	John Newcomb et al #1 Comm	304′N 330′W SEc SW NW Sec. 2-7S-8E	Aux Vases	3098′	100	448′
Ivan White	John Newcomb et al #1-A Comm	330′N 330′E SWc SW SW NW Sec. 2-7S-8E	Aux Vases	3020′	50	415′
D. H. Lovelace Drilling Co.	J. T. Peek #4	330′N 330′E SWc NW SW Sec. 2-7S-8E	Aux Vases	2964′	150	436′
Sinclair Oil & Gas Co.	Violet Rainey #2	330′S 330′E NWc NE SE Sec. 2-7S-8E	Aux Vases Benoist	2992′	60	481′
Ivan White	T. Summers et al #1-A Comm	330′S 330′E SWc NW NE Sec. 2-7S-8E	Aux Vases	3021′	50	476′
Ivan White	T. Summers et al #2-A Comm	330′N 330′E SEc NW NE Sec. 2-7S-8E	Aux Vases	3045′	50	485′
Ivan White	T. Summers #2	330′N 330′E SWc NE NW Sec. 2-7S-8E				
Ivan White	T. Summers #3	330′S 330′W NEc NW Sec. 2-9S-8E	Aux Vases	3021′	50	466′
Ivan White	Nelson Bryant et al #1	330′N 330′W SEc Sec. 3-7S-8E	Aux Vases	2978′	100	435′
Ivan White	Nelson Bryant et al #2	330′S 330′W NEc SE SE Sec. 3-7S-8E	Aux Vases	2969′	105	431′
Ivan White	Nelson Bryant #2-A	390′S 415′W NEc SE Sec. 3-7S-8E	Aux Vases	2978′	100	423′
Sanders-Fye Drilling Co.	Hammett #1	957′S 330′W NEc Frac. NE Sec. 3-7S-8E	Paint Creek	3014′		424′
Ivan White	Opal Hulett et al #1 Comm	330′N 330′W SEc NE Sec. 3-7S-8E	Aux Vases	2970′	60	431′
Jack Hinkle Drilling Co.	Joe S. DeLap #2	330′S 330′E NWc SE SW Sec. 4-7S-8E	Paint Creek	3020′	140	381′

McKelvy & Sipoha Drilling Contractors	Harrell #1	330'S 330'E NWc NE NW Sec. 4-7S-8E	Cypress	3050'	90	412'
McKelvy & Sipoha Drilling Contractors	Harrell #2	330'N 330'E SWc NE NW Sec. 4-7S-8E	Aux Vases	3050'	75	409'
Sun Oil Co.	R. E. Okerson #8	330'S 330'E NWc SE NE Sec. 9-7S-8E	Aux Vases	3090'	240	442'
Evans & Dolly	John R. McGill et al #1	330'S 330'W NEc SE SE Sec. 10-7S-8E	Aux Vases	3071'	70	412'
Cities Service Oil Co.	Mount #8	330'N 330'W SEc SE NW NW Sec. 12-7S-8E	Benoist Aux Vases	2925'	80	445'
Murvin & Steber	Hamilton Heirs #1	330'N 330'E SWc SE Sec. 13-7S-8E	Aux Vases	2910'	134	410'
Nathan C. Davies	C. W. Beard #1	330'N 330'W SEc NW SW Sec. 13-7S-8E	Aux Vases	2900'	25	414'
Murvin & Steber	Farris-Hamilton Comm. #1	1650'N 1650'E SWc SE SW Sec. 13-7S-8E	Aux Vases	2921'	100	431'
Clark & Clark	Everett Hamilton et al #1 Comm.	990'N 330'E SWc SE SE Sec. 13-7S-8E	Aux Vases	2901'	30	412'
Murvin & Steber	Hamilton-Farris Comm. #2	1650'N 330'E SWc SE SW Sec. 13-7S-8E	Cypress Aux Vases	3000'	141	421'
Murvin & Steber	Hamilton-Farris Comm. #1	1114'N 809'E SWc SE SW Sec. 13-7S-8E	Aux Vases	3050'	75	427'
Clark & Clark	Everett Hamilton et al Comm. #2	330'N 330'E SWc SE SE Sec. 13-7S-8E	Benoist Aux Vases	2916'	50	413'
Nathan C. Davis	J. C. Trousdale #1	330'S 330'W NEc SW SW Sec. 13-7S-8E	Aux Vases	2940'	168	431'
Clark & Clark	Everett Hamilton et al #3	330'N 330'W SEc Sec. 13-7S-8E	Aux Vases	2930'	110	427'
Murvin & Steber	Charles B. Lamp #1	330'N 330'W SEc NE Sec. 13-7S-8E	Aux Vases	3010'	100	462'
Clark & Clark	Ernest Morris et al #1	330'S 330'W NEc Sec. 14-7S-8E	Aux Vases	2900'	50	415'
Clark & Clark	Louis Bump et al #1	330'S 330'W NEc SE NE Sec. 14-7S-8E	Aux Vases	2981'	30	402'
Clark & Clark	Ernest Morris et al #4	330'N 330'W SEc NE NE Sec. 14-7S-8E	Cypress Aux Vases McClosky	2978'	10	418'
Tidewater Associated Oil Co.	Anna Barker #6	330'S 330'W NEc NW Sec. 14-7S-8E	Aux Vases	2896'	90	395'
Murvin & Steber	H. Edwards #1	330'N 330'E SWc SE SE Sec. 14-7S-8E	Aux Vases	3067'	100	432'
Clark & Clark	Ernest Morris et al #2	330'S 330'E NWc NE NE Sec. 14-7S-8E				
Clark & Clark	Ernest Morris et al #3	330'S 330'W NEc NW NE Sec. 14-7S-8E	Aux Vases	3043'	30	424'
Ralph C. Halbert	J. J. Shatzsall #1	387'S 387'E NWc NE SE Sec. 15-7S-8E	Aux Vases	2943'	100	
Ralph Halbert	Shatzsall #2	330'S 330'W NEc SE Sec. 15-7S-8E	Aux Vases	2908'	20	
Eastern Petroleum Co.	Garrett-Kennedy Comm. #1	330'N 330'E SWc NE NE Sec. 15-7S-8E	Cypress	3045'	50	458'
Thomas S. Doran	Wayne W. Allen #1	330'S 330'W NEc SW SE Sec. 18-7S-8E	Cypress	2653'	120	408'
Eastern Petroleum Co.	Farmer Heirs #1	330'S 330'W SEc Sec. 18-7S-8E	Cypress	2960'	14	387'
Eastern Petroleum Co.	Farmer Heirs #2	345'N 330'E SWc SE SE Sec. 18-7S-8E	Cypress	2677'	150	389'
Eastern Petroleum Co.	Farmer Heirs #3	330'S 330'W NEc SE SE Sec. 18-7S-8E	Tar Springs	2692'	40	392'
Eastern Petroleum Co.	Farmer Heirs #4	330'S 330'E NWc SE SE Sec. 18-7S-8E	Cypress	2701'	35	418'
Eastern Petroleum Co.	Farmer Heirs #1-A	330'S 365'E NWc SE SE Sec. 18-7S-8E	Tar Springs	2300'	125	418'
Eastern Petroleum Co.	E. F. Garrett #1	330'N 330'W SEc NE NE Sec. 18-7S-8E	Aux Vases	3056'	100	463'
Eastern Petroleum Co.	Kennedy Heirs #1	330'S 330'W NEc SE NE Sec. 18-7S-8E	Cypress	3164'	15	426'
Estate of N. V. Duncan	Hamilton-Ritcheson Cons. #1	330'S 330'W NEc SE NW Sec. 24-7S-8E	Benoist	2999'	650	402'
Estate of N. V. Duncan	Hamilton-Ritcheson Cons. #2	330'N 330'W SEc SE SE NW Sec. 24-7S-8E	Benoist Aux Vases	3043'	100	403'
Kingwood Oil Co.	Odes Bayley #5	330'S 330'E NWc SW SW Sec. 2-7S-9E	Cypress	2719'	28	507'
Q. B. Mitchell	Bayley "80" Well #5	924'N 330'E SWc NW SW Sec. 2-7S-9E	Cypress	3001'	100	540'
Kingwood Oil Co.	W. L. Knight #5	330'N 330'W SEc Sec. 10-7S-9E	Rosiclare	2975'	33	414'
E. Paul DuPont, Jr., Trustee	Hendrix #1	330'S 330'E NWc NE NE Sec. 10-7S-9E	Pennsylvanian	2962'		458'
E. Paul DuPont, Jr., Trustee	Hendrix #2	330'S 330'W NEc NE Sec. 10-7S-9E	Pennsylvanian	1536'		483.9'
C. L. Lauderdale	Donald B. Weas #1	330'S 330'E NWc SE Sec. 10-7S-9E	Aux Vases	3152'	720	423'
C. L. Lauderdale	Donald B. Weas #1-A	330'N 330'E SWc NE Sec. 10-7S-9E	Aux Vases	3150'	312	426'
Gulf Refining Co.	L. S. Bayley #10	390'N 330'W SEc SW SW Sec. 11-7S-9E	Aux Vases	2908'	155	431'
Gulf Refining Co.	L. S. Bayley #7	330'N 330'E SWc NE SW Sec. 11-7S-9E	Aux Vases	2958'	321	456'

PRODUCING OIL WELLS—Concluded
(Permits Issued in 1954)

Name of operator	Name of well and number	Location	Formation	Total depth	Est. IP daily (bbls)	Elev.
WHITE COUNTY—Concluded						
Gulf Refining Co.	L. S. Bayles #12	330′N 330′E SW Sec. 11-7S-9E	Aux Vases	2892′	178	414′
A. Eron	Odes Bayley #1	330′N 330′E SWc NW Sec. 11-7S-9E	Pennsylvanian	2917′	15	444′
Gulf Refining Co.	L. S. Bayles #13	330′S 280′E NWc NW NE Sec. 11-7S-9E	Aux Vases	2910′	96	436′
Gulf Refining Co.	L. S. Bayley #8	330′N 330′W SEc NW SW Sec. 11-7S-9E	Tar Springs Aux Vases	2907′	196	427′
Gulf Refining Co.	L. S. Bayley #9	330′S 330′W NEc SW SW Sec. 11-7S-9E	Aux Vases	2907′	173	431′
A. Eron	W. A. Knight #1	330′S 330′W NEc NW NW Sec. 14-7S-9E	McClosky	2934′	200	429′
A. Eron	W. A. Knight #2	330′S 990′W NEc NW NW Sec. 14-7S-9E	Tar Springs	2917′	20	409′
Collins Bros. Oil Co.	Knight #1	330′S 330′W NEc Sec. 15-7S-9E	McClosky	3054′	48	406′
A. Eron d/b/a Acme Casing Pulling Co.	W. A. Knight #3	330′N 3990′W SEc NW NW Sec. 14-7S-9E	Tar Springs	2264′	5	408′
Great Lakes Carbon Corp.	Calvert "A" #2	330′S 330′W NEc NW Sec. 4-7S-10E	Aux Vases	3031′	262	367.5′
Evans & Dolly	Frank H. Ackerman et al #2	330′S 990′E NWc NE Sec. 4-7S-10E	Cypress	2621′	15	369′
Pep Drilling Co.	John Welch #2	330′N 330′W SEc NE SE Sec. 10-7S-8E	McClosky	3008′	25	--------
Arrow Drilling Co.	Jennie Ellis #5	330′N 330′W SEc SW SE Sec. 11-7S-8E	Aux Vases	2873′	175	409′
Tide Water Associated Oil Co.	Anna Baker Well #2	330′N 330′E SWc SW SE SE Sec. 11-7S-8E	Aux Vases	2904′	160	418′
Arrow Drilling Co.	Mitchell #A-2	330′S 330′E NWc SW Sec. 11-7S-8E	Aux Vases	2962′	70	405′
Gulf Refining Co.	L. S. Bayley #11	330′S 330′W NEc NW SW Sec. 11-7S-9E	Clore Aux Vases	3050′	204	430′
Arrow Drilling Co.	Jennie Ellis #4	330′N 330′E SWc SE Sec. 11-7S-8E	Aux Vases	2906′	200	413′
Arrow Drilling Co.	Jennie Ellis #6	330′N 267′W SEc SE SE SW Sec. 11-7S-8E	Aux Vases	2898′	85	403′
Ashland Oil & Refining Co.	Charles W. Mitchell #2	330′S 330′E NWc SW NW Sec. 11-7S-8E	Aux Vases	2939′	--------	427′
Arrow Drilling Co.	Mitchell #3-A	330′N 330′E SWc NW SW Sec. 11-7S-8E	Aux Vases	2943′	40	408′
Herndon Drilling Co.	Lawrence E. Welch #2	330′S 330′E NWc SW SW Sec. 11-7S-8E	Aux Vases	2970′	70	403′
Murvin & Steber	Moore #1	330′N 339′W SEc SW NW Sec. 12-7S-8E	Aux Vases	2906′	192	443′
F. J. Fleming	Bobbie Cummins #1-A	330′S 360′W NEc SW NE Sec. 12-7S-8E	Aux Vases	2923′	75	454′
F. J. Fleming	B. Downen #2	330′N 330′E SWc NW NE Sec. 12-7S-8E	Aux Vases	2913′	75	448′
Murvin & Steber	Moore #2	330′N 330′E SWc SE NW Sec. 12-7S-8E	Aux Vases	2892′	75	429′
Gulf Refining Co.	J. E. Moore #5	990′N of South Line 950′E of West Line NW¼ Sec. 12-7S-8E	Aux Vases Paint Creek	2895′	128	440′